

Computational Biology in Entrepreneurial Improbability Tectonics

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INTRODUCTION

Humans are complicated, non-linear matrixes and share vivaciously while making decision. On the other hand, are (all) human beings cogent? Is there an element of rationality or backed up by logic - while making decisions? Are all calculations based on some evidence, facts, figures, statistics, calibrations, models or mathematical computing? Are such estimates based on a viaduct, linking computational, mathematical, numerical, geometric, calculus and biological sciences? In such a scenario, is there scope for modeling and simulation to play a significant role? Is there a duct for computational analysis? This paper declares rejection. Neo-classical archetype of circumscribed rationality is gnarled and can induce human eyes that it is somewhere it in actuality isn't. Neuro - management assumes that decision-making involve rational optimization of predictable utility. This is assumed as if humans were operational with limitless information, time and information-processing control. How can we learn and use models of biological systems constructed from experimental measurements? Challenging contemporary assumptions or theories (based on type of experimental data), this is the biggest challenge and issue that needs a clinical precision based anatomical peep.

Fundamental concepts in decision conjecture are 'preference' and 'prediction'. Neuro - physiological dissections have furrowed footing of conformist neuro - management to a state of 'Improbability Tectonics'. This clearly calls for initiating a new move rather than alteration of reachable hypothesis. There is a need to investigate VUCA - BANI - TUNA and RUPT (VBTR) based decision making tectonics or 'Improbability Tectonics' within the gamut of an expounding archetype that embraces probabilistic practical

constraints. Potential playing field of neuro - management appear to broaden supposition and run through to appreciate this behavioural dimension with reference to a VBTR continuum. Expansion of neuro-entrepreneurial management sciences, Cognitive Science and human sense organ - sciences challenge customary management viewpoint.

'Although decision management provides wide range of mathematical models its status as a science is disputable. Decision management is often devoted to studying of surrogate systems instead of reality. Biology, especially Neuroscience, offers a completely new attitude to decision-making, which is based on empirical research and inductive modelling'.

..... Michal Müller

Conventional, orthodox and stereotype management is based on archetype of reasonableness stating that human beings project at attaining maximal utility. Management Science is a core guide towards primary understanding of motivation for management behaviour. Neuromanagement is a new inter - disciplinary behavioural discipline guiding individual development towards decision making 'trials'. Neuromanagement shows individual is neither egoist nor altruist but hybrid of both as essence of decision augmentation. Neuromanagement identifies management decisions regarding pragmatic utility, objectifies neural correlates of decision. This is mostly by sophisticated scanners and interprets subjective dynamics of neural correlates to decisions (Satpathy & Yousri; 2024). Dawn of neuro-management has been laced with 'Players' of convolution. How is entrepreneurial decision making processes carried out in intellect? Do we interpret research answers when neuroentrepreneurial logical results conflict? Knowing how intellect (and eyes) is working explains little about what mind produces; what we think, what we trust and how we craft decisions. What are the general implications of neuroentrepreneurial management? How to choose in tough situations where disruptions and uncertainties are high and

there are multiple conflicting objectives? How should Entrepreneurs' plan? How can we deal with risks and uncertainties involved in a decision? How can we create options that are better than the ones originally available? How can we become better decision makers? What resources will be invested in decision - making? What are the potential responses to a particular problem or opportunity? Who will make this decision? Every prospective action has strengths and weaknesses; how should they be evaluated? How will they decide? Which of the things that could happen would happen? The decision has been made. How can we ensure it will be carried out? These are the questions neuroentrepreneurial researchers suspect are most crucial for understanding complex human behaviours in disruptions and uncertainties (Satpathy & Yousri; 2024). The above issues have been posed by (Satpathy & Yousri; 2024) in a paper presented at Dhaka, Bangla Desh.

'The only way to rectify our reasoning is to make them as tangible as those of the Mathematicians so that we can find our errors at a glance, and when there are disputes among persons, we can simply say: Let us calculate, without further ado, to see who is right'.

.... Leibniz

Problem Statement

A person's mental activities are entirely due to the behaviour of nerve cells, glial cells, and the atoms, ions, and molecules that make them up and influence them.'

.... Francis Crick

Fluid intelligence, along with eye movements; eye tracking, eye gazing and eye tracing, ability to think flexibly, adaptively, and creatively, plays critical role in decision-making processes. By unravelling dynamics of entrepreneurial fluid intelligence, paper gain insights into how entrepreneurs respond to unpredictability and devise strategies to enhance decision-making potential. Notwithstanding considerable developments, enquiry of how entrepreneurs make decisions (as experimented with Refractometry Index Measurements) posture significant trials for methodical explorations. Erecting a decision infers that there is an alternate decision to be factored (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). As regards Problem Statement, improbability of neuro - management expectations is common in heretical framework (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). Emerging neuro-entrepreneurial science evidence suggests that sound and rational neuroentrepreneurial fluid intellect making depends on prior accurate arousing processing (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). In mainstream neuro - management, it is assumed that individuals are rational and use neuro - management intellects to capitalize

on utility (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). However, heretical theories reject the idea that individuals may not always act to maximize utility (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). Heretical theories argue these ideas are inaccurate that do not reflect real-world conditions (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). Thus, fluid intellect involves amount of risk (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). This stresses information-gathering function of fluid intellect - making (Satpathy, J, Aithal, P.S., Torben, L., Roza, J., Chin, P. N., Lockhart, J., Chowdhury, D., & Misra, L. (2023). Notwithstanding significant advance, inquiry of how we make judgment continue to pose imperative challenge for methodical research. What are the limitations and possibilities in atmosphere of improbability (Satpathy, J., Arif, A. and Torben, L. (2023). Does improbability offer new opportunity (Satpathy, J., Arif, A. and Torben, L. (2023)? If fair enough; then why and how (Satpathy, J., Arif, A. and Torben, L. (2023). Does improbability lead to rigorous restraining circumstances (Satpathy, J., Arif, A. and Torben, L. (2023)? Does improbability compel new configuration, arrangement and process (Satpathy, J., Arif, A. and Torben, L. (2023). How do entrepreneurs cope/deal with uncertainties in the process of improbability and growth simultaneously (Satpathy, J., Arif, A. and Torben, L. (2023)? Do technique of futures, forecasting and foresight represent and govern improbability (Satpathy, J., Arif, A. and Torben, L. (2023). What are the potential impacts of industrial revolution to neuro - management development (Satpathy, J., Arif, A. and Torben, L. (2023)? In the ambit, what heretical approaches can be injected to counter improbability (Satpathy, J., Arif, A. and Torben, L. (2023)? The above issues have been posed by (Satpathy & Yousri; 2024) in a paper presented at Dhaka, Bangla Desh.

RESEARCH ISSUES

How to account information about value, risk, ambiguity and timing (Satpathy & Yousri; 2024)? How does this criterion behave with reference to the chosen approach (Satpathy & Yousri; 2024)? What distinguishes criteria adopted is dissimilar (Satpathy & Yousri; 2024)? Are there direct correlations that exist between approaches (Satpathy & Yousri; 2024)? How identifiable variables affect selection of decision making criteria (Satpathy & Yousri; 2024)? Is there a relationship between external variables and decision criterion used (Satpathy & Yousri; 2024)? What kinds of algorithms and computations underpin decision process (Satpathy & Yousri; 2024)? Which human sense organs are involved and how do these implement at neural level (Satpathy & Yousri; 2024)?

How are decisions made in multifarious environments (Satpathy & Yousri; 2024)? How can sciences harness digital 'inferential' data for logical inquiry (Satpathy & Yousri; 2024)? What are the crucial geometric domains (Satpathy & Yousri; 2024)? What reciprocal relationships exist between cognitive and affective processes (Satpathy & Yousri; 2024)? What are the neuro - behavioural underpinnings (Satpathy & Yousri; 2024)? How does valence of information affect decision making (Satpathy & Yousri; 2024)? How do emotional Players influence (Satpathy & Yousri; 2024)? How changes can be elucidated by neuro - behavioural management (Satpathy & Yousri; 2024)? What emotional models capture interactions in decision making (Satpathy & Yousri; 2024)? How do individual differences influence decision-making (Satpathy & Yousri; 2024)? How do motivation and goal - orientation influence (Satpathy & Yousri; 2024)? What neuro - systems support dissimilar motivational states (Satpathy & Yousri; 2024)? What neuro - behavioural processes distinguish Players of decision capacities (Satpathy & Yousri; 2024)? How do contextual interactions influence, support or undermine decision making (Satpathy & Yousri; 2024)? How status influence decision making (Satpathy & Yousri; 2024)? What are the effects of norms, pressures and stigma (Satpathy & Yousri; 2024)? How precisely are constructs supposed to be encoded in neuro - physiological structures (Satpathy & Yousri; 2024)? How can insights from neurons be embedded (Satpathy & Yousri; 2024)? What has neurons contributed on 'Players' not being rational (Satpathy & Yousri; 2024)? All these need to be examined in new world of work edifice, context. This is because complete knowledge about all alternatives is seldom possible. The above issues have been posed by (Satpathy & Yousri; 2024) in a paper presented at Dhaka, Bangla Desh.

1. How does an entrepreneur choose via. Refractometry?
2. What part do eyes execute decision making?

Aim and Objective(s)

Paper aims on major planning problems and entrepreneurs (practitioners) who make bulk of decisions. Objective is to monitor diary study philosophy of biology in behavioural models. Purpose is to reject traditional assumptions and evaluate those cognitive factors and especially eye movements have stimulus on actor's decision. Through ophthalmic cabling diagram, paper highlights potential cause - effect linkage between biology and management in explaining how entrepreneurs deal in judgment dynamics. Attempt is to explore nature of causality, identify methods to test causal relations, employ empirical (cognitive and deep improbability logical) approaches) to causal reasoning, and establish a relation between deep improbability logical causality and causality using deep improbability-management' data to reveal

neural paths in VUCA - BANI based decision making. Attempt is to explore ways in which VBTR matrix improves cognitive and neurological approach (es) between neuro - causality using neuro-management (optometric) data. Kowler Model (focused on isolated ideas and concepts that claims unconscious eyes activity precedes self-reported, cognizant intent) would be revisited in amplification of how Entrepreneurs deal in representative designs and probabilistic functionalism decision tectonic dynamics. Paper aims on some visual - evidences on complex inter-temporal decision trials on. Objective is to monitor diary study (obtained via, Refractometry Index Measurements) philosophy of biology in behavioural models. Purpose is to reject traditional assumptions and evaluate cognitive factors and especially eye movements that offer stimulus. Through ophthalmic refractometry index diagram, paper highlights causal relations, employs empirical (cognitive and neurological) approach (es) and establishes relation between visual causality using neuro - management' data to reveal neural paths. Pivotal point is to comprehend causal processes of how entrepreneurs craft decision in direction of decisions.

3. To scrutinize philosophy of biology in behavioural models ,
4. Propose 'cause - effect linkage' work for decision-making ,
5. Explore problems of multifarious management decisions ,
6. Discuss improbability that compel new configuration, arrangement and process , and
7. Examine how entrepreneurs cope/deal with uncertainties?

METHODOLOGY (AND EXPERIMENT)

As regards methodology, paper draws on refractometry to calculate influence of eyes in shaping communication connected with entrepreneurial strategy (Satpathy, J., Misra, L. and Warriar, U. (2023). Eye tracking experiment has been conducted on 03 participants to measure eye positions (identifying fixations & saccades) and eye movement ('Geometry of Stimulus') to indicate connect between fixations, gaze and refractometry - based entrepreneurial decision tectonic shifts(s) (Satpathy, J., Misra, L. and Warriar, U. (2023). Using Kowlerian model, we present an investigation that explains experimental methods and analysis with contemporary eye tracking savoir-faire (Satpathy, J., Misra, L. and Warriar, U. (2023). This section countenances a specific hypothesis about role of eye movements in decision; understanding how eye movements are premeditated, carried out notwithstanding recurrent vicissitudes in optical assortment that eye movement harvest (Satpathy, J., Misra, L. and Warriar,

U. (2023). The Tobii software has been used to draw primary data (Satpathy, J., Misra, L. and Warriar, U. (2023). Statistical tools have been used to analyze and draw inferences (Satpathy, J., Misra, L. and Warriar, U. (2023).

Methodology includes inter-disciplinary thinking modeling attempt with an empirical part (Isai, M. and Satpathy, J. (2024). Eye Movements have been explored towards obtaining deductions in neuro-based complex decisions (Isai, M. and Satpathy, J. (2024). An eye tracking experiment was conducted on 03 Participants to measure eye positions and eye movement (Isai, M. and Satpathy, J. (2024). Ophthalmic refractometry indices have been analysed (Isai, M. and Satpathy, J. (2024). Tobii equipment is used to record visual activity of eyes (Isai, M. and Satpathy, J. (2024). These waves (rhythms) afford evidence about circumstances and cognitive processes in visual system (Isai, M. and Satpathy, J. (2024). In light of debating theories and applications in decision making, physiological responses have been measured to appreciate visual activity and how eyes respond to sounding (Isai, M. and Satpathy, J. (2024).

Only one (N=01) subject was chosen. The argument for this is that the Subject can have full command and control over the experimental parameters. And, the architecture of a person neither does nor tally with that of another. Hence, it was decided to replicate soundings on the same subject.

The Tobii Eye Tracker / 4 was chosen for the experiment. eye tracker's installation and setup procedure was alienated into three major steps:

1. Installing the eye tracker driver and updating the firmware (Source: Tobii Literature).
2. Mounting the eye tracker on the display or setup (Source: Tobii Literature).
3. Configuring the eye tracker with the display (Source: Tobii Literature).
4. Eye Gaze Data Provider' was added to the input system (Source: Tobii Literature).
5. This data provider provides eye tracking data from the platform (Source: Tobii Literature).
6. 'GazeInput' capability was enabled in the application manifest (Source: Tobii Literature).
7. HoloLens waseye calibrated for the current user (Source: Tobii Literature).
8. Webcam Eye Tracking engine GazeFlow and GazeRecorder softwares were used.

Efforts calculated basic statistics for fixation durations, gaze point coordinates (X, Y), and distances from the eye-tracking device. A key finding was that the average gaze duration was 128.4 ms. Average gaze points were located at coordinates (861.2, 430.4). The average distance from the device was 626.37 mm.

Efforts examined how gazes behavior, such as fixation duration and saccade patterns, changed throughout the session. A research question was; how does attention and gaze behavior vary over time?

Heat map of Gaze Points generated a heat map to visualize the distribution of gaze points, identifying areas of high visual attention. Brighter areas indicated regions of greater visual attention by participants.

Efforts investigated variations in gaze behavior metrics between different session segments (beginning, middle, and end). A research question was; Are there significant differences in gaze behavior across session segments? And, what was the impact of Distance on Gaze Precision

Efforts analyzed the effect of the participant's distance from the screen on gaze behavior. A key results was the average distance remained constant, and the correlation between distance and fixation duration was minimally positive (0.122), indicating a limited influence of distance on gaze behavior.

Efforts broke down the roles of different gaze events in visual processing and attention. A research question was; How do different gaze events influence our understanding of visual processing and attention?

Efforts launched additional considerations in eye-tracking research;

- Cognitive Models Integration: Linking eye-tracking metrics to cognitive load theories and visual search strategies.
- Comparative Analysis across Populations: Exploring variations in gaze patterns among different demographic groups.
- Technological and Methodological Considerations: The importance of accuracy and calibration in eye-tracking data collection.
- Ethical and Privacy Concerns: Informed consent and data anonymization to protect participant privacy.

Soundings

Seconds	Left X	Left Y	Left Eye Center X	Left Eye Center Y	Left Vertical Speed	Left Horizontal Speed	Right X	Right Y	Right Eye Center X	Right Eye Center Y	Right Vertical Speed	Right Horizontal Speed	ris
23	91.0	83.0	92.0	85.0	0.0813184339384123	0.16262060039416076	36.0	76.0	33.0	77.0	0.2439512407441199	0.08133877999363681	00
39	93.0	84.0	92.0	85.0	0.0862126442816831	0.0862126442816831	37.0	76.0	33.0	77.0	0.34493686298383064	0.08627738523979864	00
55	94.0	84.0	92.0	85.0	0.17243391248691184	0.0862258081400614	37.0	76.0	33.0	77.0	0.34493686298383064	0.08627738523979864	00
09	93.0	84.0	92.0	85.0	0.06493939439399507	0.06493939439399507	38.0	76.0	33.0	77.0	0.3248270137957724	0.06501747264680657	00
72	96.0	84.0	92.0	85.0	0.24547654052837029	0.0613998569804702	38.0	77.0	33.0	77.0	0.30687642221212884	0.0	00
86	96.0	84.0	92.0	85.0	0.3509883868958277	0.08779102357733896	38.0	77.0	33.0	77.0	0.43877944566464927	0.0	00
45	84.0	82.0	92.0	85.0	0.5039101901788581	0.18931451995365023	40.0	77.0	33.0	77.0	0.44061190621415264	0.0	00
103	96.0	84.0	92.0	85.0	0.25324478548179974	0.06334289042921926	38.0	78.0	33.0	77.0	0.31660354509208194	0.06337146068106464	00
221	97.0	86.0	92.0	85.0	0.42392678071651657	0.08485331175939163	41.0	76.0	33.0	77.0	0.6787253660768183	0.08501968399151566	00
381	98.0	85.0	92.0	85.0	0.3752253652829901	0.0	39.0	78.0	33.0	77.0	0.3752441505349918	0.06261385202851805	00
538	97.0	86.0	92.0	85.0	0.31862012818184043	0.0637751005580141	41.0	79.0	33.0	77.0	0.51020150514728	0.12780672183486336	00
662	02.0	85.0	92.0	85.0	0.8078017835609661	0.0	46.0	75.0	33.0	77.0	0.0515742753398254	0.1626817807078113	00
815	98.0	86.0	92.0	85.0	0.39241218356600455	0.06547853806903849	41.0	80.0	33.0	77.0	0.5236713741074408	0.196738618775362	00
973	96.0	83.0	92.0	85.0	0.2532828048461161	0.12669212662279344	43.0	78.0	33.0	77.0	0.6340028273976321	0.06361105923144818	00
092	98.0	86.0	92.0	85.0	0.5045299502991487	0.08418669180304948	42.0	82.0	33.0	77.0	0.758278287689496	0.4220575760595156	00
250	99.0	87.0	92.0	85.0	0.4434894413497908	0.1269020522164542	41.0	82.0	33.0	77.0	0.5075069017664264	0.31760652479056245	00
411	97.0	86.0	92.0	85.0	0.31070410015247796	0.0621906260099889	40.0	82.0	33.0	77.0	0.43568430642555744	0.311453187564781	00
534	97.0	87.0	92.0	85.0	0.4067550596465543	0.16281614279218407	40.0	81.0	33.0	77.0	0.5700284419543853	0.32609036551963166	00
685	98.0	86.0	92.0	85.0	0.3976096959311717	0.06634580347392642	57.0	83.0	33.0	77.0	0.6080270665472693	0.4095751092367449	00
846	98.0	85.0	92.0	85.0	0.3728947729520399	0.0	55.0	82.0	33.0	77.0	0.3794839498543434	0.31849839990197915	00
970	97.0	84.0	92.0	85.0	0.40341419455281413	0.08074750635167913	55.0	79.0	33.0	77.0	0.7891902366342245	0.16535278882112667	00
120	79.0	84.0	92.0	85.0	0.8691702388586847	0.0672383822554408	34.0	78.0	33.0	77.0	0.06667111157783494	0.06667111157783494	00
284	94.0	86.0	92.0	85.0	0.12196545029562057	0.06098882545380922	37.0	79.0	33.0	77.0	0.24401636076638014	0.12205704881952052	00
400	82.0	84.0	92.0	85.0	0.86355575248499	0.08664264964283458	36.0	79.0	33.0	77.0	0.25871126144183554	0.17250294358205598	00
556	96.0	84.0	92.0	85.0	0.25649151350079713	0.0641549787680554	38.0	79.0	33.0	77.0	0.32071072010593704	0.128374266432299	00
717	96.0	85.0	92.0	85.0	0.24851350530427901	0.0	38.0	78.0	33.0	77.0	0.31070410015247796	0.0621906260099889	00
835	00.0	86.0	92.0	85.0	0.6787253660768183	0.08501968399151566	44.0	77.0	33.0	77.0	0.9340936439639546	0.0	00
996	00.0	86.0	92.0	85.0	0.4974508894227612	0.06231256342235309	57.0	81.0	33.0	77.0	0.5066079136365544	0.255999624086384	00
155	02.0	86.0	92.0	85.0	0.6300153882316093	0.06321098967653341	47.0	79.0	33.0	77.0	0.8835830298963544	0.1270459298716706	00
270	03.0	86.0	92.0	85.0	0.9585094259525434	0.0874889076408188	48.0	77.0	33.0	77.0	0.3092893284929221	0.0	00
428	03.0	87.0	92.0	85.0	0.6977543732758099	0.12736371783447833	46.0	79.0	33.0	77.0	0.825286140140116	0.12767430890992784	00
589	01.0	86.0	92.0	85.0	0.5597916999434216	0.06236594055981368	43.0	80.0	33.0	77.0	0.622438997007885	0.18730251354885702	00
706	88.0	86.0	92.0	85.0	0.3419886846677295	0.0853997169074053	43.0	80.0	33.0	77.0	0.8565186198045038	0.25774106565270066	00
867	86.0	86.0	92.0	85.0	0.3729134415254577	0.06222494611529474	39.0	80.0	33.0	77.0	0.3730628911211992	0.18669982912167188	00
020	87.0	86.0	92.0	85.0	0.32695006617352257	0.06544242344841969	42.0	79.0	33.0	77.0	0.5891504823467583	0.13126042721654568	00
141	87.0	85.0	92.0	85.0	0.41339551079148773	0.0	41.0	78.0	33.0	77.0	0.6618974644385501	0.08291175794213924	00
299	89.0	84.0	92.0	85.0	0.18991140893371358	0.06332069581783119	42.0	77.0	33.0	77.0	0.5703920570544004	0.0	00
457	01.0	86.0	92.0	85.0	0.5704206562714612	0.06355010398816457	43.0	78.0	33.0	77.0	0.6340028273976321	0.06361105923144818	00
582	03.0	87.0	92.0	85.0	0.8819615278206238	0.1609877393427806	47.0	78.0	33.0	77.0	0.123747878950674	0.08079708990391479	00
738	04.0	87.0	92.0	85.0	0.7712440023966515	0.12914703211630116	48.0	78.0	33.0	77.0	0.965229866513447	0.06483722570867584	00

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33 1049 CMD_FRAME_SYNCH -1 -1 " " -1	4 1081 CMD_FRAME_SYNCH -1 -1 " " -1	5 1112 CMD_FRAME_SYNCH -1 -1 " " -1	6 1145 CMD_FRAME_SYNCH -1 -1 " " -1
37 1175 CMD_FRAME_SYNCH -1 -1 " " -1	8 1207 CMD_FRAME_SYNCH -1 -1 " " -1	9 1241 CMD_FRAME_SYNCH -1 -1 " " -1	10 1288 CMD_FRAME_SYNCH -1 -1 " " -1
41 1326 CMD_FRAME_SYNCH -1 -1 " " -1	12 1352 CMD_FRAME_SYNCH -1 -1 " " -1	3 1384 CMD_FRAME_SYNCH -1 -1 " " -1	4 1416 CMD_FRAME_SYNCH -1 -1 " " -1
45 1459 CMD_FRAME_SYNCH -1 -1 " " -1	16 1480 CMD_FRAME_SYNCH -1 -1 " " -1	17 1512 CMD_FRAME_SYNCH -1 -1 " " -1	18 1544 CMD_FRAME_SYNCH -1 -1 " " -1
49 1578 CMD_FRAME_SYNCH -1 -1 " " -1	20 1608 CMD_FRAME_SYNCH -1 -1 " " -1	31 1668 CMD_FRAME_SYNCH -1 -1 " " -1	1 891 CMD_CAL_PT_START 0.5 0.5 " " -1
51 891 CMD_CAL_PT_END -1 -1 " " 5	2 1701 CMD_FRAME_SYNCH -1 -1 " " -1	3 1805 CMD_FRAME_SYNCH -1 -1 " " -1	3 891 CMD_CAL_START 0 0 " " 0
53 891 CMD_CAL_PT_START 0.5 0.5 " " 0	4 1816 CMD_FRAME_SYNCH -1 -1 " " -1	5 1848 CMD_FRAME_SYNCH -1 -1 " " -1	6 1893 CMD_FRAME_SYNCH -1 -1 " " -1
57 1925 CMD_FRAME_SYNCH -1 -1 " " -1	8 1944 CMD_FRAME_SYNCH -1 -1 " " -1	9 1976 CMD_FRAME_SYNCH -1 -1 " " -1	10 2024 CMD_FRAME_SYNCH -1 -1 " " -1
61 2056 CMD_FRAME_SYNCH -1 -1 " " -1	2 2088 CMD_FRAME_SYNCH -1 -1 " " -1	3 2121 CMD_FRAME_SYNCH -1 -1 " " -1	4 2152 CMD_FRAME_SYNCH -1 -1 " " -1
65 2184 CMD_FRAME_SYNCH -1 -1 " " -1	6 2216 CMD_FRAME_SYNCH -1 -1 " " -1	7 2249 CMD_FRAME_SYNCH -1 -1 " " -1	8 2281 CMD_FRAME_SYNCH -1 -1 " " -1
69 2312 CMD_FRAME_SYNCH -1 -1 " " -1	10 2344 CMD_FRAME_SYNCH -1 -1 " " -1	1 2392 CMD_FRAME_SYNCH -1 -1 " " -1	2 2427 CMD_FRAME_SYNCH -1 -1 " " -1

3 2456 CMD_FRAME_SYNCH -1 -1 "-1	4 2490 CMD_FRAME_SYNCH -1 -1 "-1	5 2530 CMD_FRAME_SYNCH -1 -1 "-1	6 2561 CMD_FRAME_SYNCH -1 -1 "-1
7 2592 CMD_FRAME_SYNCH -1 -1 "-1	8 2622 CMD_FRAME_SYNCH -1 -1 "-1	9 2657 CMD_FRAME_SYNCH -1 -1 "-1	10 2689 CMD_FRAME_SYNCH -1 -1 "-1
11 2720 CMD_FRAME_SYNCH -1 -1 "-1	12 2760 CMD_FRAME_SYNCH -1 -1 "-1	13 2792 CMD_FRAME_SYNCH -1 -1 "-1	14 2823 CMD_FRAME_SYNCH -1 -1 "-1
15 2856 CMD_FRAME_SYNCH -1 -1 "-1	16 2887 CMD_FRAME_SYNCH -1 -1 "-1	17 2920 CMD_FRAME_SYNCH -1 -1 "-1	18 2952 CMD_FRAME_SYNCH -1 -1 "-1
19 2984 CMD_FRAME_SYNCH -1 -1 "-1	20 3016 CMD_FRAME_SYNCH -1 -1 "-1	21 3049 CMD_FRAME_SYNCH -1 -1 "-1	22 3082 CMD_FRAME_SYNCH -1 -1 "-1
23 3134 CMD_FRAME_SYNCH -1 -1 "-1	24 3161 CMD_FRAME_SYNCH -1 -1 "-1	25 3192 CMD_FRAME_SYNCH -1 -1 "-1	26 3225 CMD_FRAME_SYNCH -1 -1 "-1
27 3256 CMD_FRAME_SYNCH -1 -1 "-1	28 3288 CMD_FRAME_SYNCH -1 -1 "-1	29 3321 CMD_FRAME_SYNCH -1 -1 "-1	30 3225 CMD_CAL_PT_END -1 -1 "-0
31 3225 CMD_CAL_PT_START 0.501 0.5 " 8	32 3353 CMD_FRAME_SYNCH -1 -1 "-1	33 3384 CMD_FRAME_SYNCH -1 -1 "-1	34 3416 CMD_FRAME_SYNCH -1 -1 "-1
35 3450 CMD_FRAME_SYNCH -1 -1 "-1	36 3512 CMD_FRAME_SYNCH -1 -1 "-1	37 3541 CMD_FRAME_SYNCH -1 -1 "-1	38 3568 CMD_FRAME_SYNCH -1 -1 "-1
39 3603 CMD_FRAME_SYNCH -1 -1 "-1	40 3625 CMD_FRAME_SYNCH -1 -1 "-1	41 3667 CMD_FRAME_SYNCH -1 -1 "-1	42 3700 CMD_FRAME_SYNCH -1 -1 "-1
43 3732 CMD_FRAME_SYNCH -1 -1 "-1	44 3761 CMD_FRAME_SYNCH -1 -1 "-1	45 3795 CMD_FRAME_SYNCH -1 -1 "-1	46 3833 CMD_FRAME_SYNCH -1 -1 "-1
47 3865 CMD_FRAME_SYNCH -1 -1 "-1	48 3897 CMD_FRAME_SYNCH -1 -1 "-1	49 3928 CMD_FRAME_SYNCH -1 -1 "-1	50 3968 CMD_FRAME_SYNCH -1 -1 "-1
51 3993 CMD_FRAME_SYNCH -1 -1 "-1	52 4033 CMD_FRAME_SYNCH -1 -1 "-1	53 4062 CMD_FRAME_SYNCH -1 -1 "-1	54 4089 CMD_FRAME_SYNCH -1 -1 "-1
55 4127 CMD_FRAME_SYNCH -1 -1 "-1	56 4158 CMD_FRAME_SYNCH -1 -1 "-1	57 4200 CMD_FRAME_SYNCH -1 -1 "-1	58 4232 CMD_FRAME_SYNCH -1 -1 "-1
59 4265 CMD_FRAME_SYNCH -1 -1 "-1	60 4297 CMD_FRAME_SYNCH -1 -1 "-1	61 4328 CMD_FRAME_SYNCH -1 -1 "-1	62 4363 CMD_FRAME_SYNCH -1 -1 "-1
63 4392 CMD_FRAME_SYNCH -1 -1 "-1	64 4424 CMD_FRAME_SYNCH -1 -1 "-1	65 4456 CMD_FRAME_SYNCH -1 -1 "-1	66 4488 CMD_FRAME_SYNCH -1 -1 "-1
67 4523 CMD_FRAME_SYNCH -1 -1 "-1	68 4572 CMD_FRAME_SYNCH -1 -1 "-1	69 4607 CMD_FRAME_SYNCH -1 -1 "-1	70 4634 CMD_FRAME_SYNCH -1 -1 "-1
71 4666 CMD_FRAME_SYNCH -1 -1 "-1	72 4698 CMD_FRAME_SYNCH -1 -1 "-1	73 4732 CMD_FRAME_SYNCH -1 -1 "-1	74 4763 CMD_FRAME_SYNCH -1 -1 "-1
75 4794 CMD_FRAME_SYNCH -1 -1 "-1	76 4825 CMD_FRAME_SYNCH -1 -1 "-1	77 4856 CMD_FRAME_SYNCH -1 -1 "-1	78 4888 CMD_FRAME_SYNCH -1 -1 "-1
79 4825 CMD_CAL_PT_END -1 -1 "-	80 4825 CMD_CAL_END -1 -1 "-0	81 4825 CMD_TRACK_START -1 -1 "-1	82 4941 CMD_FRAME_SYNCH -1 -1 "-1
83 12206 CMD_FRAME_SYNCH -1 -1 "-1	84 12216 CMD_FRAME_SYNCH -1 -1 "-1	85 12266 CMD_FRAME_SYNCH -1 -1 "-1	86 12299 CMD_FRAME_SYNCH -1 -1 "-1
87 12329 CMD_FRAME_SYNCH -1 -1 "-1	88 12362 CMD_FRAME_SYNCH -1 -1 "-1	89 12394 CMD_FRAME_SYNCH -1 -1 "-1	90 12436 CMD_FRAME_SYNCH -1 -1 "-1

Fp1	Fp2	F3	F4	C3	C4	P3	P4	O1	O2	F7	F8	T7	T8	P7	P8
FzCzPz	Oz	FC1	FC2	CP1	CP2	FC5	FC6	CP5	CP6	TP9	TP10	POz			
0.494740	78.668716	42.221447	34.008308	38.997314	68.533890	52.374413	25.338448	10.446033	20.912264	14.872568	-9.874845				
42.804832	57.625202	15.573313	22.241928	82.460449	19.039169	31.810369	24.485403	19.624922	25.366356	27.825472	46.824337				
6.715289	30.278799	54.178055	32.204098	-1.123037	74.120766	19.254108	447.693512								
1.185774	78.022102	42.863033	32.742432	38.556702	65.518097	51.662209	25.948124	9.793940	20.311308	14.898472	-10.074430				
42.299274	57.571117	14.928022	22.976326	81.082039	18.704649	31.543839	24.063801	18.903944	24.655975	29.138168	46.182903				
6.603292	30.179001	53.937092	31.520462	-2.210671	72.487000	18.466637	380.760925								
1.951442	77.255669	41.489441	32.354126	36.010216	62.417404	48.368088	26.074074	7.705141	18.648136	12.369221	-9.160006	40.167091			
56.955681	12.597404	22.598274	78.221344	18.211494	29.873501	22.689178	17.718489	27.637375	30.053316	44.489456	6.679369				
31.437580	51.797451	29.723640	-4.925619	70.369667	15.282494	305.440521									
2.868619	75.968567	38.468651	32.262623	32.267406	58.999271	43.096725	25.894619	4.515658	16.093512	8.422183	-7.330776	36.951256			
55.836300	9.039550	21.400042	73.960602	17.797592	27.127733	20.513184	16.143190	32.603569	30.905420	41.913467	7.039516				
33.454151	48.391350	26.612640	-8.678454	67.875343	10.579178	240.944916									
3.870058	75.093353	34.810177	31.985067	28.445379	55.422699	37.469330	26.276611	1.190012	13.480534	4.553146	-5.165158	33.399475			
54.533871	5.314291	20.275066	68.930130	17.651297	24.448000	18.342981	14.287928	38.118771	32.378365	38.962105	7.600087				
35.646145	44.782322	23.140547	-12.705060	65.196907	5.597749	195.852371									
Fp1	Fp2	F3	F4	C3	C4	P3	P4	O1	O2	F7	F8	T7	T8	P7	P8
FzCzPz	Oz	FC1	FC2	CP1	CP2	FC5	FC6	CP5	CP6	TP9	TP10	POz			
4.578223	75.499550	31.285381	31.577572	25.121424	52.464699	32.840073	27.645863	-1.373564	11.663512	1.363444	-3.224467	29.998873			
53.466446	2.275204	19.806797	64.029610	17.754038	22.727448	16.971361	12.406290	43.629242	34.511593	36.233177	8.115172				
37.712658	41.637775	20.572273	-16.466936	62.794594	1.268594	169.025070									
4.983148	76.605011	28.691296	30.925444	23.131401	50.288960	30.290358	29.795631	-2.597496	11.031319	-0.185500	-1.881635	27.511997			
52.956539	0.573310	20.237822	60.067017	18.096676	22.332222	16.708832	10.841809	47.539379	37.071674	34.241753	8.492299				
39.030468	39.706657	19.233198	-19.221916	61.064564	-1.285809	158.780182									

5.210838	77.371780	27.294416	29.944803	22.773258	48.567623	29.941061	32.252533	-2.501643	11.446606	0.226557	-1.228798	26.263569			
53.022034	0.238456	21.463892	57.197205	18.641703	23.029045	17.384817	9.746260	48.812645	39.795166	33.121998	8.717505				
39.312004	39.188152	18.790092	-20.725601	60.072601	-1.678450	157.453430									
5.188944	77.787613	26.825626	29.049805	23.322847	47.357903	31.095760	34.632435	-1.507086	12.593598	1.582651	-1.171172	25.845135			
53.468739	0.783994	23.103710	55.365414	19.194757	24.363077	18.691963	9.087433	48.541946	42.272114	32.714375	8.718682				
39.044643	39.525173	19.201227	-21.409348	59.698387	-0.679667	155.537079									
4.819240	78.254135	26.847298	28.756365	23.818926	46.909142	32.781708	36.588276	-0.180432	14.061990	2.540124	-1.503779	25.672562			
54.010002	1.585689	24.641394	54.501419	19.537003	25.823038	20.239769	8.781864	48.431591	44.046482	32.746841	8.471877				
38.912617	39.977833	20.433971	-21.816692	59.775604	0.592202	147.998932									
Fp1	Fp2	F3	F4	C3	C4	P3	P4	O1	O2	F7	F8	T7	T8	P7	P8
	FzCzPz	Oz	FC1	FC2	CP1	CP2	FC5	FC6	CP5	CP6	TP9	TP10	POz		
4.079046	78.386429	26.814493	29.069921	23.742306	46.979958	33.893002	37.701576	0.848927	15.287666	2.329619	-2.017828	25.282644			
54.351475	1.983972	25.604691	54.142426	19.613594	26.792057	21.492037	8.694643	48.907768	44.872997	32.862988	8.033916				
39.144127	39.958481	21.870827	-22.350704	60.069309	1.325660	136.302490									
3.014018	77.707451	26.269709	29.788208	22.916073	47.273167	33.503613	37.630531	1.058425	15.753387	0.672532	-2.463744	24.405569			
54.275497	1.462360	25.594841	53.745663	19.492435	26.739504	21.958530	8.702619	49.796333	44.646343	32.757881	7.515425				
39.719727	39.094143	22.758251	-23.238029	60.376022	1.016298	126.492157									
1.692069	76.462418	25.442713	30.723078	21.742043	48.027466	31.944950	36.422493	0.622700	15.552906	-1.862689	-2.812793	23.337469			
53.983391	0.301389	24.647152	53.633747	19.235920	25.871229	21.712021	8.898592	50.576183	43.329216	32.575764	6.981539				
40.271374	37.709217	23.129742	-24.113834	60.826702	-0.017353	128.954971									

Sub - 1	I-VT refine	84		Unclas	8	846	424	626.4	626.4
Sub - 1	I-VT refine	88		Unclas	8	846	426	626.28	626.28
Sub - 1	I-VT refine	2		Unclas	8	848	426	626.28	626.28
Sub - 1	I-VT refine	4	0	Fixation	260	860	424	626.28	626.28
Sub - 1	I-VT refine	8	0	Fixation	260	848	424	626.28	626.28
Sub - 1	I-VT refine	2	0	Fixation	260	846	444	626.28	626.28
Sub - 1	I-VT refine	4	0	Fixation	260	846	428	626.28	626.28
Sub - 1	I-VT refine	8	0	Fixation	260	862	428	626.4	626.4
Sub - 1	I-VT refine	22	0	Fixation	260	860	426	626.4	626.4
Sub - 1	I-VT refine	24	0	Fixation	260	862	422	626.26	626.26
Sub - 1	I-VT refine	28	0	Fixation	260	848	428	626.26	626.26
Sub - 1	I-VT refine	22	0	Fixation	260	848	422	626.26	626.26
Sub - 1	I-VT refine	24	0	Fixation	260	864	426	626.4	626.4
Sub - 1	I-VT refine	28	0	Fixation	260	860	426	626.28	626.28
Sub - 1	I-VT refine	42	0	Fixation	260	844	440	626.28	626.28
Sub - 1	I-VT refine	44	0	Fixation	260	864	424	626.24	626.24
Sub - 1	I-VT refine	48	0	Fixation	260	860	428	626.24	626.24
Sub - 1	I-VT refine	42	0	Fixation	260	862	420	626.28	626.28
Sub - 1	I-VT refine	44	0	Fixation	260	860	422	626.26	626.26
Sub - 1	I-VT refine	48	0	Fixation	260	860	428	626.28	626.28
Sub - 1	I-VT refine	62	0	Fixation	260	848	424	626.28	626.28
Sub - 1	I-VT refine	64	0	Fixation	260	848	426	626.24	626.24
Sub - 1	I-VT refine	68	0	Fixation	260	862	420	626.26	626.26
Sub - 1	I-VT refine	62	0	Fixation	260	860	428	626.26	626.26
Sub - 1	I-VT refine	64	0	Fixation	260	848	424	626.24	626.24
Sub - 1	I-VT refine	68	0	Fixation	260	848	424	626.28	626.28
Sub - 1	I-VT refine	82	0	Fixation	260	864	420	626.26	626.26
Sub - 1	I-VT refine	84	0	Fixation	260	864	424	626.24	626.24
Sub - 1	I-VT refine	88	0	Fixation	260	848	422	626.28	626.28
Sub - 1	I-VT refine	82	0	Fixation	260	862	426	626.28	626.28
Sub - 1	I-VT refine	84	0	Fixation	260	848	426	626.42	626.42
Sub - 1	I-VT refine	88	0	Fixation	260	848	424	626.4	626.4
Sub - 1	I-VT refine	202	0	Fixation	260	860	428	626.4	626.4
Sub - 1	I-VT refine	204	0	Fixation	260	860	420	626.4	626.4
Sub - 1	I-VT refine	208	0	Fixation	260	860	422	626.44	626.44
Sub - 1	I-VT refine	202	0	Fixation	260	864	420	626.42	626.42
Sub - 1	I-VT refine	204	0	Fixation	260	864	428	626.42	626.42
Sub - 1	I-VT refine	208	0	Fixation	260	860	422	626.44	626.44

Sub - 1	I-VT refine	222	0	Fixation	260	848	428	626.4	626.4
Sub - 1	I-VT refine	224	0	Fixation	260	864	420	626.42	626.42
Sub - 1	I-VT refine	228	0	Fixation	260	848	422	626.42	626.42
Sub - 1	I-VT refine	222	0	Fixation	260	860	420	626.4	626.4
Sub - 1	I-VT refine	224	0	Fixation	260	848	428	626.42	626.42
Sub - 1	I-VT refine	228	0	Fixation	260	862	428	626.42	626.42
Sub - 1	I-VT refine	242	0	Fixation	260	844	422	626.42	626.42

Subject	Fixation	Recording Time	Fixation Index	Gaze Occurrence Type	Gaze Occurrence Duration	Gaze Point X	Gaze Point Y	Distance Left	Distance Right
Sub - 2	I-VT refine	662		Unclas	6	866	488	626.88	626.88
Sub - 2	I-VT refine	664		Unclas	6	860	482	626.02	626.02
Sub - 2	I-VT refine	668		Saccade	6	866	488	626.88	626.88
Sub - 2	I-VT refine	680		Saccade	6	860	486	626.02	626.02
Sub - 2	I-VT refine	684		Saccade	6	862	400	626	626
Sub - 2	I-VT refine	688		Saccade	6	868	420	626.02	626.02
Sub - 2	I-VT refine	682		Saccade	6	868	466	626.02	626.02
Sub - 2	I-VT refine	684		Unclas	0	866	620	626.08	626.08
Sub - 2	I-VT refine	688		Unclas	0	866	668	626	626
Sub - 2	I-VT refine	802		Unclas	0	840	666		0
Sub - 2	I-VT refine	804		Unclas	6				
Sub - 2	I-VT refine	808		Unclas	6				
Sub - 2	I-VT refine	800		Unclas	6				
Sub - 2	I-VT refine	804		Unclas	6				
Sub - 2	I-VT refine	808		Unclas	6				
Sub - 2	I-VT refine	820		Unclas	6				

Sub - 2	I-VT refine	824		Unclas	6				
Sub - 2	I-VT refine	828		Unclas	6				
Sub - 2	I-VT refine	822		Unclas	6				
Sub - 2	I-VT refine	824		Unclas	6				
Sub - 2	I-VT refine	828		Unclas	6				
Sub - 2	I-VT refine	842		Unclas	6				
Sub - 2	I-VT refine	844		Unclas	6				
Sub - 2	I-VT refine	848		Unclas	6				
Sub - 2	I-VT refine	840		Unclas	6				
Sub - 2	I-VT refine	844		Unclas	6				
Sub - 2	I-VT refine	848		Unclas	6				
Sub - 2	I-VT refine	862		Unclas	6				
Sub - 2	I-VT refine	864		Unclas	6				
Sub - 2	I-VT refine	868		Unclas	6				
Sub - 2	I-VT refine	862		Unclas	6				
Sub - 2	I-VT refine	864		Unclas	6				
Sub - 2	I-VT refine	868		Unclas	6				
Sub - 2	I-VT refine	882		Unclas	6				
Sub - 2	I-VT refine	884		Unclas	6				
Sub - 2	I-VT refine	888		Unclas	6				
Sub - 2	I-VT refine	880		Unclas	6				
Sub - 2	I-VT refine	884		Unclas	6				
Sub - 2	I-VT refine	888		Unclas	6				

Sub - 2	I-VT refine	802		Unclas	6				
Sub - 2	I-VT refine	804		Unclas	6				
Sub - 2	I-VT refine	808		Unclas	6				
Sub - 2	I-VT refine	800		Unclas	6				
Sub - 2	I-VT refine	804		Unclas	6				
Sub - 2	I-VT refine	808		Unclas	6				
Sub - 2	I-VT refine	820		Unclas	0	828	606	606.84	606.84
Sub - 2	I-VT refine	824		Unclas	0	826	602	606.08	606.08
Sub - 2	I-VT refine	828		Unclas	0	828	684	606.28	606.28
Sub - 2	I-VT refine	822		Saccade	22	826	468	606.42	606.42
Sub - 2	I-VT refine	824		Saccade	22	862	400	622.08	622.08
Sub - 2	I-VT refine	828		Saccade	22	884	444	626.02	626.02
Sub - 2	I-VT refine	840		Saccade	22	884	420	626.02	626.02
Sub - 2	I-VT refine	844		Saccade	22	888	404	626	626
Sub - 2	I-VT refine	848		Saccade	22	888	282	626.02	626.02
Sub - 2	I-VT refine	840		Saccade	22	880	266	626.06	626.06
Sub - 2	I-VT refine	844		Unclas	6	880	280	626.04	626.04
Sub - 2	I-VT refine	848		Unclas	6	880	282	626.08	626.08
Sub - 2	I-VT refine	860		Saccade	6	882	288	626.88	626.88
Sub - 2	I-VT refine	864		Saccade	6	880	288	626.88	626.88
Sub - 2	I-VT refine	868		Saccade	6	868	400	626.84	626.84
Sub - 2	I-VT refine	860		Saccade	6	868	402	626.82	626.82
Sub - 2	I-VT refine	864		Saccade	6	868	406	626.8	626.8

Sub - 2	I-VT refine	868	2	Fixation	26	866	408	626.84	626.84
Sub - 2	I-VT refine	880	2	Fixation	26	866	422	626.84	626.84
Sub - 2	I-VT refine	884	2	Fixation	26	864	420	626.88	626.88
Sub - 2	I-VT refine	888	2	Fixation	26	866	408	626.8	626.8
Sub - 2	I-VT refine	880	2	Fixation	26	864	406	626.8	626.8
Sub - 2	I-VT refine	884	2	Fixation	26	864	406	626.86	626.86
Sub - 2	I-VT refine	888	2	Fixation	26	866	402	626.88	626.88
Sub - 2	I-VT refine	2	2	Fixation	26	868	400	626.86	626.86
Sub - 2	I-VT refine	4	2	Fixation	26	864	400	626.86	626.86
Sub - 2	I-VT refine	8	2	Fixation	26	864	404	626.86	626.86
Sub - 2	I-VT refine	0	2	Fixation	26	864	408	626.84	626.84
Sub - 2	I-VT refine	4	2	Fixation	26	862	404	626.86	626.86
Sub - 2	I-VT refine	8	2	Fixation	26	862	402	626.84	626.84
Sub - 2	I-VT refine	20	2	Fixation	26	864	404	626.82	626.82
Sub - 2	I-VT refine	24	2	Fixation	26	864	400	626.84	626.84
Sub - 2	I-VT refine	28	2	Fixation	26	864	402	626.84	626.84
Sub - 2	I-VT refine	20	2	Fixation	26	862	402	626.86	626.86
Sub - 2	I-VT refine	24	2	Fixation	26	866	402	626.88	626.88
Sub - 2	I-VT refine	28	2	Fixation	26	866	404	626.86	626.86
Sub - 2	I-VT refine	40	2	Fixation	26	864	408	626.88	626.88
Sub - 2	I-VT refine	44	2	Fixation	26	866	400	626.88	626.88
Sub - 2	I-VT refine	48	2	Fixation	26	866	400	626.86	626.86
Sub - 2	I-VT refine	40	2	Fixation	26	866	406	626.86	626.86

Sub - 2	I-VT refine	44	2	Fixation	26	868	406	626.88	626.88
Sub - 2	I-VT refine	48	2	Fixation	26	880	408	626.84	626.84
Sub - 2	I-VT refine	60	2	Fixation	26	866	402	626.8	626.8
Sub - 2	I-VT refine	64	2	Fixation	26	866	400	626.8	626.8
Sub - 2	I-VT refine	68	2	Fixation	26	868	402	626.8	626.8
Sub - 2	I-VT refine	60	2	Fixation	26	864	404	626.64	626.64
Sub - 2	I-VT refine	64	2	Fixation	26	880	406	626.6	626.6
Sub - 2	I-VT refine	68	2	Fixation	26	868	408	626.62	626.62
Sub - 2	I-VT refine	80	2	Fixation	26	868	408	626.64	626.64
Sub - 2	I-VT refine	84	2	Fixation	26	882	406	626.64	626.64
Sub - 2	I-VT refine	88	2	Fixation	26	866	408	626.6	626.6
Sub - 2	I-VT refine	80	2	Fixation	26	868	402	626.62	626.62
Sub - 2	I-VT refine	84	2	Fixation	26	882	406	626.66	626.66
Sub - 2	I-VT refine	88	2	Fixation	26	882	404	626.68	626.68
Sub - 2	I-VT refine	0	2	Fixation	26	884	404	626.68	626.68
Sub - 2	I-VT refine	4		Saccade	2	880	402	626.68	626.68
Sub - 2	I-VT refine	8		Unclas	6	868	400	626.66	626.66
Sub - 2	I-VT refine	0		Unclas	6	880	408	626.68	626.68
Sub - 2	I-VT refine	4		Saccade	2	884	428	626.44	626.44
Sub - 2	I-VT refine	8		Unclas	6	880	400	626.62	626.62
Sub - 2	I-VT refine	20		Unclas	6	868	406	626.64	626.64
Sub - 2	I-VT refine	24		Saccade	2	882	442	626.64	626.64
Sub - 2	I-VT refine	28		Unclas	6	868	402	626.6	626.6

Sub - 2	I-VT refine	20		Unclas	6	868	408	626.68	626.68
Sub - 2	I-VT refine	24		Saccade	2	880	408	626.64	626.64
Sub - 2	I-VT refine	28		Unclas	46	880	402	626.66	626.66
Sub - 2	I-VT refine	40		Unclas	46	880	408	626.64	626.64
Sub - 2	I-VT refine	44		Unclas	46	868	406	626.62	626.62
Sub - 2	I-VT refine	48		Unclas	46	880	402	626.66	626.66
Sub - 2	I-VT refine	40		Unclas	46	868	406	626.66	626.66
Sub - 2	I-VT refine	44		Unclas	46	868	408	626.64	626.64
Sub - 2	I-VT refine	48		Unclas	46	868	408	626.64	626.64
Sub - 2	I-VT refine	60		Unclas	46	868	406	626.62	626.62
Sub - 2	I-VT refine	64		Unclas	46	880	408	626.6	626.6
Sub - 2	I-VT refine	68		Unclas	46	866	408	626.6	626.6
Sub - 2	I-VT refine	60		Unclas	46	866	406	626.64	626.64
Sub - 2	I-VT refine	64		Unclas	46	868	406	626.64	626.64
Sub - 2	I-VT refine	68		Unclas	46	880	406	626.64	626.64
Sub - 2	I-VT refine	80		Unclas	46	868	408	626.62	626.62
Sub - 2	I-VT refine	84		Unclas	46	868	408	626.62	626.62
Sub - 2	I-VT refine	88		Unclas	46	880	406	626.6	626.6
Sub - 2	I-VT refine	80		Unclas	46	880	404	626.6	626.6
Sub - 2	I-VT refine	84		Saccade	2	868	400	626.64	626.64
Sub - 2	I-VT refine	88		Unclas	6	880	408	626.6	626.6
Sub - 2	I-VT refine	200		Unclas	6	880	406	626.6	626.6
Sub - 2	I-VT refine	204		Unclas	6	886	442	624	624

Sub - 2	I-VT refine	208		Unclas	6	882	406	626.62	626.62
Sub - 2	I-VT refine	200		Unclas	6	880	400	626.62	626.62
Sub - 2	I-VT refine	204		Saccade	2	882	404	626.64	626.64
Sub - 2	I-VT refine	208	2	Fixation	280	880	404	626.64	626.64
Sub - 2	I-VT refine	220	2	Fixation	280	880	406	626.66	626.66
Sub - 2	I-VT refine	224	2	Fixation	280	882	406	626.64	626.64
Sub - 2	I-VT refine	228	2	Fixation	280	882	408	626.64	626.64
Sub - 2	I-VT refine	220	2	Fixation	280	880	404	626.66	626.66
Sub - 2	I-VT refine	224	2	Fixation	280	882	404	626.66	626.66
Sub - 2	I-VT refine	228	2	Fixation	280	880	406	626.62	626.62
Sub - 2	I-VT refine	240	2	Fixation	280	880	408	626.64	626.64
Sub - 2	I-VT refine	244	2	Fixation	280	882	404	626.64	626.64
Sub - 2	I-VT refine	248	2	Fixation	280	882	408	626.66	626.66
Sub - 2	I-VT refine	240	2	Fixation	280	880	406	626.64	626.64
Sub - 2	I-VT refine	244	2	Fixation	280	880	406	626.64	626.64
Sub - 2	I-VT refine	248	2	Fixation	280	880	402	626.66	626.66
Sub - 2	I-VT refine	260	2	Fixation	280	882	404	626.68	626.68
Sub - 2	I-VT refine	264	2	Fixation	280	880	406	626.64	626.64
Sub - 2	I-VT refine	268	2	Fixation	280	882	408	626.64	626.64
Sub - 2	I-VT refine	260	2	Fixation	280	884	404	626.62	626.62
Sub - 2	I-VT refine	264	2	Fixation	280	884	400	626.66	626.66
Sub - 2	I-VT refine	268	2	Fixation	280	882	406	626.66	626.66
Sub - 2	I-VT refine	280	2	Fixation	280	882	400	626.62	626.62

Sub - 2	I-VT refine	284	2	Fixation	280	884	404	626.6	626.6
Sub - 2	I-VT refine	288	2	Fixation	280	884	402	626.62	626.62
Sub - 2	I-VT refine	280	2	Fixation	280	882	408	626.64	626.64
Sub - 2	I-VT refine	284	2	Fixation	280	880	400	626.62	626.62
Sub - 2	I-VT refine	288	2	Fixation	280	880	288	626.48	626.48
Sub - 2	I-VT refine	200	2	Fixation	280	882	408	626.48	626.48
Sub - 2	I-VT refine	204	2	Fixation	280	882	408	626.48	626.48
Sub - 2	I-VT refine	208	2	Fixation	280	882	406	626.46	626.46
Sub - 2	I-VT refine	200	2	Fixation	280	884	404	626.6	626.6
Sub - 2	I-VT refine	204	2	Fixation	280	882	406	626.48	626.48
Sub - 2	I-VT refine	208	2	Fixation	280	882	404	626.48	626.48
Sub - 2	I-VT refine	220	2	Fixation	280	880	406	626.6	626.6
Sub - 2	I-VT refine	224	2	Fixation	280	884	408	626.62	626.62
Sub - 2	I-VT refine	228	2	Fixation	280	884	400	626.6	626.6
Sub - 2	I-VT refine	220	2	Fixation	280	880	408	626.6	626.6
Sub - 2	I-VT refine	224	2	Fixation	280	884	404	626.62	626.62
Sub - 2	I-VT refine	228	2	Fixation	280	882	408	626.62	626.62
Sub - 2	I-VT refine	240	2	Fixation	280	882	408	626.6	626.6
Sub - 2	I-VT refine	244	2	Fixation	280	884	408	626.6	626.6
Sub - 2	I-VT refine	248	2	Fixation	280	882	404	626.62	626.62
Sub - 2	I-VT refine	240	2	Fixation	280	884	404	626.64	626.64
Sub - 2	I-VT refine	244	2	Fixation	280	884	404	626.62	626.62
Sub - 2	I-VT refine	248	2	Fixation	280	880	400	626.64	626.64

Sub - 2	I-VT refine	260	2	Fixation	280	884	406	626.64	626.64
Sub - 2	I-VT refine	264	2	Fixation	280	884	404	626.62	626.62
Sub - 2	I-VT refine	268	2	Fixation	280	882	404	626.64	626.64
Sub - 2	I-VT refine	260	2	Fixation	280	884	406	626.62	626.62
Sub - 2	I-VT refine	264	2	Fixation	280	882	406	626.64	626.64
Sub - 2	I-VT refine	268	2	Fixation	280	882	408	626.64	626.64
Sub - 2	I-VT refine	280	2	Fixation	280	884	404	626.68	626.68
Sub - 2	I-VT refine	284	2	Fixation	280	886	408	626.64	626.64
Sub - 2	I-VT refine	288	2	Fixation	280	886	400	626.64	626.64
Sub - 2	I-VT refine	280	2	Fixation	280	880	288	626.64	626.64
Sub - 2	I-VT refine	284	2	Fixation	280	882	402	626.66	626.66
Sub - 2	I-VT refine	288	2	Fixation	280	882	402	626.64	626.64
Sub - 2	I-VT refine	400	2	Fixation	280	886	406	626.66	626.66
Sub - 2	I-VT refine	404	2	Fixation	280	880	400	626.68	626.68
Sub - 2	I-VT refine	408	2	Fixation	280	884	404	626.66	626.66
Sub - 2	I-VT refine	400	2	Fixation	280	884	404	626.68	626.68
Sub - 2	I-VT refine	404	2	Fixation	280	886	400	626.68	626.68
Sub - 2	I-VT refine	408	2	Fixation	280	886	408	626.66	626.66
Sub - 2	I-VT refine	420	2	Fixation	280	886	406	626.64	626.64
Sub - 2	I-VT refine	424	2	Fixation	280	884	406	626.66	626.66
Sub - 2	I-VT refine	428	2	Fixation	280	886	404	626.66	626.66
Sub - 2	I-VT refine	420	2	Fixation	280	884	288	626.66	626.66
Sub - 2	I-VT refine	424	2	Fixation	280	882	406	626.66	626.66

Sub - 2	I-VT refine	428	2	Fixation	280	888	404	626.64	626.64
Sub - 2	I-VT refine	440	2	Fixation	280	886	406	626.6	626.6
Sub - 2	I-VT refine	444	2	Fixation	280	882	404	626.62	626.62

Subject	Fixation	Recording Time	Fixation Index	Gaze Occurrence Type	Gaze Occurrence Duration	Gaze Point X	Gaze Point Y	Distance Left	Distance Right
Sub - 3	I-VT refine	448	2	Fixation	280	882	406	626.68	626.68
Sub - 3	I-VT refine	440	2	Fixation	280	886	402	626.6	626.6
Sub - 3	I-VT refine	444	2	Fixation	280	884	408	626.6	626.6
Sub - 3	I-VT refine	448	2	Fixation	280	886	402	626.62	626.62
Sub - 3	I-VT refine	460	2	Fixation	280	884	288	626.62	626.62
Sub - 3	I-VT refine	464	2	Fixation	280	882	408	626.6	626.6
Sub - 3	I-VT refine	468	2	Fixation	280	884	404	626.64	626.64
Sub - 3	I-VT refine	460	2	Fixation	280	886	404	626.62	626.62
Sub - 3	I-VT refine	464	2	Fixation	280	884	404	626.62	626.62
Sub - 3	I-VT refine	468	2	Fixation	280	884	404	626.6	626.6
Sub - 3	I-VT refine	480	2	Fixation	280	882	404	626.6	626.6
Sub - 3	I-VT refine	484	2	Fixation	280	880	408	626.64	626.64
Sub - 3	I-VT refine	488	2	Fixation	280	884	408	626.68	626.68
Sub - 3	I-VT refine	480	2	Fixation	280	884	402	626.62	626.62
Sub - 3	I-VT refine	484	2	Fixation	280	886	400	626.62	626.62
Sub - 3	I-VT refine	488		Saccade	22	886	402	626.66	626.66
Sub - 3	I-VT refine	400		Saccade	22	886	402	626.64	626.64
Sub - 3	I-VT refine	404		Saccade	22	800	400	626.62	626.62
Sub - 3	I-VT refine	408		Saccade	22	824	404	626.68	626.68
Sub - 3	I-VT refine	400		Saccade	22	862	408	626.68	626.68
Sub - 3	I-VT refine	404		Saccade	22	884	408	626.68	626.68
Sub - 3	I-VT refine	408		Saccade	22	886	400	626.82	626.82

Analysis

GTX and GTY

	GT Xmm	GT Ymm
Average	235.2869	164.7689
SD	202.102	122.2326
Minimum	1	1
Maximum	546	256
Correlation Coefficient between X and Y	0.059095	

coefficient (rs):	0.059095
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N:	2510
T statistic:	2.964672
DF:	2508
p Value	0.0030

Pearson's correlation between GTX and GTY

t-Test: Paired Two Sample for Means		
	GTX	GTY
Mean	235.2868526	164.7689
Variance	40861.496	14946.77
Observations	2510	2510
Pearson Correlation	0.059095335	
Hypothesized Mean Difference	0	
df	2509	
t Stat	15.36244575	
P(T<=t) one-tail	2.84034E-51	
t Critical one-tail	1.645461174	
P(T<=t) two-tail	5.68068E-51	
t Critical two-tail	1.960909938	

t-Test between GTX and GTY

X RAW and YRAW

	XRAW	YRAW
Average	257.6031	153.3708
SD	197.4282	109.3084
Minimum	2.0301	0.0122
Maximum	722.9994	456.436
Correlation Coefficient between X and Y	0.110137	

coefficient (rs):	0.1101
N:	25
T statistic:	5.5494
DF:	25
p Value	3.17E-

Pearson's correlation between X RAW and YRAW

t-Test: Paired Two Sample for Means		
	XRAW	YRAW
Mean	257.6030696	153.3707637
Variance	38993.4389	11953.08696
Observations	2510	2510
Pearson Correlation	0.110136819	
Hypothesized Mean Difference	0	
df	2509	

t Stat	24.29743971	
P(T<=t) one-tail	1.3561E-117	
t Critical one-tail	1.645461174	
P(T<=t) two-tail	2.7123E-117	
t Critical two-tail	1.960909938	

t-Test between X RAW and YRAW

GT Xmm and GT Ymm

	GT Xmm	GT Ymm
Average	53.6454	37.56731
SD	46.07925	27.86904
Minimum	0.228	0.228
Maximum	124.488	58.368
Correlation Coefficient between X and Y	0.059095	

coefficient (rs):	0.059095
N:	2510
T statistic:	2.964672
DF:	2508
p Value	0.003059

Pearson's correlation between GT Xmm and GT Y mm

t-Test: Paired Two Sample for Means		
	GT Xmm	GT Ymm
Mean	53.64540239	37.56731
Variance	2124.144008	776.9929
Observations	2510	2510
Pearson Correlation	0.059095335	
Hypothesized Mean Difference	0	
Df	2509	
t Stat	15.36244575	
P(T<=t) one-tail	2.84034E-51	
t Critical one-tail	1.645461174	
P(T<=t) two-tail	5.68068E-51	
t Critical two-tail	1.960909938	

t-Test between GT Xmm and GT Y mm

Xmm and Ymm

	GT Xmm	GT Ymm
Average	58.73349986	34.96853
SD	45.01363509	24.92231
Minimum	0.244872	0.002782
Maximum	164.8438632	104.0674
Correlation Coefficient between X and Y	0.110136819	

coefficient (rs):	0.110136819
N:	2510

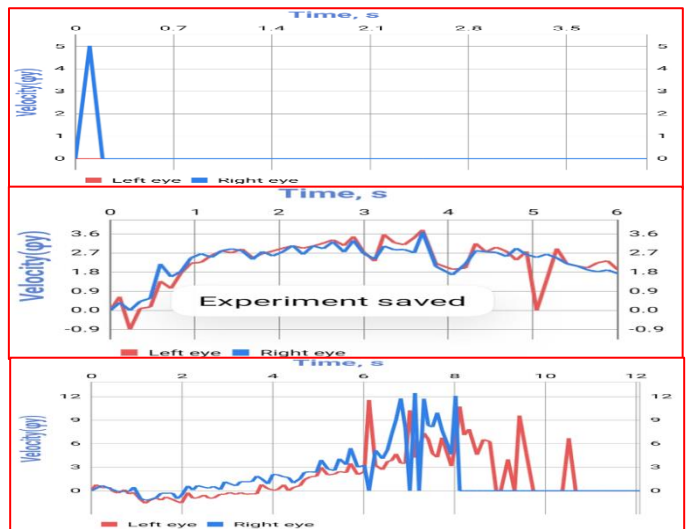
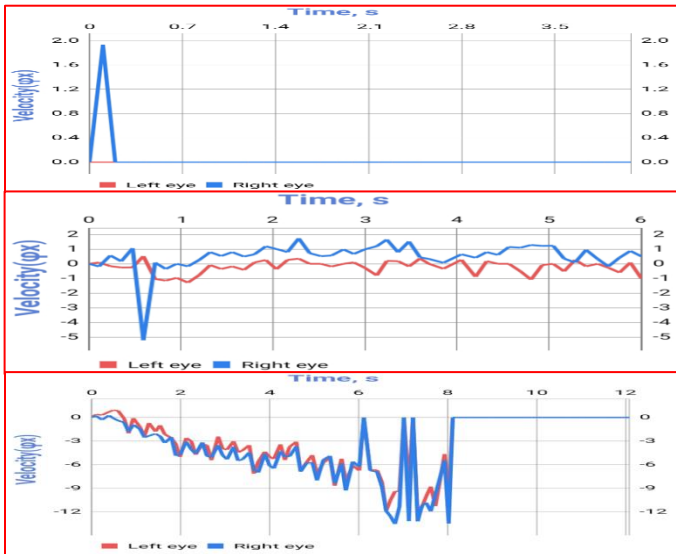
T statistic:	5.549405033
DF:	2508
p Value	3.16724E-08

Pearson's correlation between Xmm and Y mm

t-Test: Paired Two Sample for Means		
	Xmm	Ymm
Mean	58.7335	34.96853
Variance	2027.035	621.3693
Observations	2510	2510
Pearson Correlation	0.110137	
Hypothesized Mean Difference	0	
df	2509	
t Stat	24.29744	
P(T<=t) one-tail	1.4E-117	
t Critical one-tail	1.645461	
P(T<=t) two-tail	2.7E-117	
t Critical two-tail	1.96091	

Pitch – Gaze ANG – DIFF GZ

	PITCH GT	PITCH DATA	GAZE GT	GAZE ANG	DIFF GZ
Average	4.2855	7.7533	12.77	23.081	11.96
SD	3.179111	5.232118	5.163941	30.90108	29.84877



CONCLUSION

Eye tracking is a non-invasive method of measuring visual attention, which can provide researchers with a wealth of information about how people process information. By recording eye movements, researchers can identify patterns in attention, such as what people look at first, how long they spend looking at different areas, and how their attention is affected by various stimuli (Tobii: 2023).

Records of eye movements show that the observer's attention is usually held only by certain elements of the picture.... Eye movement reflects the human thought processes; so the observer's thought may be followed to some extent from records of eye movement (the thought accompanying the examination

of the particular object). It is easy to determine from these records which elements attract the observer's eye (and, consequently, his thought), in what order, and how often (Yarbus; 1967).

Entrepreneurs craft decision in direction of decisions. They do;

1. Scrutinize philosophy of biology in behavioural models ,
2. Propose 'cause - effect linkage' work for decision-making ,
3. Explore problems of multifarious management decisions ,
4. Discuss improbability that compel new configuration, arrangement and process , and
5. Examine how entrepreneurs cope/deal with uncertainties?

Future Directions: Combining eye-tracking with other biometric measures and its application in augmented and virtual reality environments.

REFERENCES

1. Abel, D., MacGlashan, J., and Littman, M. L. (2016, March). Reinforcement Learning as a Framework for Ethical Decision Making. In AAAI Workshop AI, Ethics, and Society (Vol. 16, p. 02). [Google Scholar](#)
2. Adler, FH; Fliegelman (1934). "Influence of fixation on the visual acuity". Arch. Ophthalmology. 12 (4): 475–483. [doi:10.1001/archophth.1934.00830170013002](https://doi.org/10.1001/archophth.1934.00830170013002).
3. Alexander, R. G.; Schmidt, J.; Zelinsky, G. J. (2014). "[Are summary statistics enough? Evidence for the importance of shape in guiding visual search](#)". Visual Cognition. 22 (3–4): 595–609. [doi:10.1080/13506285.2014.890989](https://doi.org/10.1080/13506285.2014.890989). [4500174](#). [PMID 26180505](#).
4. Alexander, R. G; Zelinsky, G. J (2011). "[Visual similarity effects in categorical search](#)". Journal of Vision. 11 (8): 9. [doi:10.1167/11.8.9](https://doi.org/10.1167/11.8.9). [8409006](#). [PMID 21757505](#).
5. Algumaei, M., Hettiarachchi, I. T., Farghaly, M., and Bhatti, A. (2023). The Neuroscience of Team Dynamics Exploring Neurophysiological Measures for Assessing Team Performance. IEEE Access, 11, 129173-129194. [Google Scholar](#)
6. Allouch, A., Satpathy, J. and Moreira, A. (2023). Experiments in Neuro - Economic Decisions, Proceedings of the International Conference on Innovation, Skills and Innovative Development, [ICISID 2023], Dt. 10 - 11 Nov 2023, Dept. of Economics and Centre for Social Exclusion and Inclusive Policy [CSEIP], Berhampur University, Odisha, India (International).
7. Allouch, A., Satpathy, J. and Moreira, A. (2023). Experiments in Neuro - Economic Decisions, Proceedings of the International Conference on Innovation, Skills and Innovative Development, [ICISID 2023], Dt. 10 - 11 Nov 2023, Dept. of Economics and Centre for Social Exclusion and Inclusive Policy [CSEIP], Berhampur University, Odisha, India (International).
8. Arizpe, Joseph; Kravitz, Dwight J; Walsh, Vincent; Yovel, Galit; Baker, Chris I (2016). "[Differences in Looking at Own- and Other-Race Faces Are Subtle and Analysis-Dependent: An Account of Discrepant Reports](#)". PLOS ONE. 11 (2): e0148253. [Bibcode:2016PLoS...1148253A](#). [doi:10.1371/journal.pone.0148253](https://doi.org/10.1371/journal.pone.0148253). [4744017](#). [PMID 26849447](#).
9. Balota, David A; Pollatsek, Alexander; Rayner, Keith (1985). "The interaction of contextual constraints and parafoveal visual information in
10. Just MA, Carpenter PA (1980) [A theory of reading: from eye fixation to comprehension](#). Psychol Rev 87:329–354

11. Juster, G. N., Okeyo, W., Satpathy, J. and Mallik, B. (2022). Stimulus Of Corporate Restructuring on Performance of Commercial Banks in Kiambu County, Kenya, Proceedings of International Conference on Sustainable Initiatives in Agriculture, Business & Management (ICSIABM - 2022), July 22 & 23, 2022, Centurion University of Technology and Management (CUTM), Bhubaneswar, India (National).
12. Kennedy, A; Heller, D.; Pynte, J.; Radach, Ralph (2000). [Reading as a Perceptual Process](#) (1st ed.). Elsevier. pp. 119–145. [ISBN 9780080436425](#).
13. Klein, R; Farrell, M (1989). "[Search performance without eye movements](#)". Perception & Psychophysics. 46 (5): 476–482. [doi:10.3758/BF03210863](#). [PMID 2813033](#).
14. Krajbich, I., Oud, B., and Fehr, E. (2014). Benefits of neuroeconomic modeling New policy interventions and predictors of choice. American Economic Review, 104(5), 501-506. [Google Scholar](#)
15. Mielle, S; O'Donnell, PJ; Sereno, SC (2009). "Parafoveal Magnification: Visual Acuity Does Not Modulate the Perceptual Span in Reading". Psychological Science. 20 (6): 721–728. [doi:10.1111/j.1467-9280.2009.02364.x](#). [PMID 19470124](#). [S2CID 8476978](#).
16. Mielle, S; O'Donnell, PJ; Sereno, SC (2009). "Parafoveal Magnification: Visual Acuity Does Not Modulate the Perceptual Span in Reading". Psychological Science. 20 (6): 721–728. [doi:10.1111/j.1467-9280.2009.02364.x](#). [PMID 19470124](#). [S2CID 8476978](#).
17. Mielle, S; Zhou, X; He, L; Rodger, H; Caldara, R (2010). "[Investigating cultural diversity for extrafoveal information use in visual scenes](#)". Journal of Vision. 10 (6): 21. [doi:10.1167/10.6.21](#)
18. Mielle, Sébastien; Sparrow, Laurent (2004). "Phonological codes are assembled before word fixation: Evidence from boundary paradigm in sentence reading". Brain and Language. 90 (1–3): 299–310. [CiteSeerX 10.1.1.608.3108](#). [doi:10.1016/S0093-934X\(03\)00442-5](#). [PMID 15172547](#). [S2CID 9708305](#).
19. Mielle, Sébastien; Sparrow, Laurent (2004). "Phonological codes are assembled before word fixation: Evidence from boundary paradigm in sentence reading". Brain and Language. 90 (1–3): 299–310. [CiteSeerX 10.1.1.608.3108](#). [doi:10.1016/S0093-934X\(03\)00442-5](#). [PMID 15172547](#). [S2CID 9708305](#).
20. Mishra, B.P. and Satpathy, J. (2019). Managerial Decision Making, Journal of Personnel Focus, ISSN: 2229 - 6506, Vol. 14, Issue (03), July, Pp: 01 - 07, Bhubaneswar, India (National).
21. Mishra, S., Satpathy, J. and Regi, B. (2019). E - Competency Plotting: Case Study of Power Sector in Odisha, Proceedings of National Conference on Digital Innovation - A Transformative Tool for Economic Growth, 04 Oct 2019, Dept. of Commerce, St Mary's College (Autonomous), Toothukudi, Tamil Nadu, India (National). Reprinted in the International Journal of Analytical and Experimental Modal Analysis, ISSN NO: 0886-9367, UGC - CARE Group 'A' Journal, Impact Factor: 6.3, Volume XI, Issue X, Pp: 49-64, October, India (International).
22. Misra, L, and Satpathy, J. (2023). Experiments in Neuro - Economic Decisions, The IUJ Journal of Management (IUJ-JOM), Vol. 11, No.01, June, EOI: [eoi.citefactor.org/11.11224/IUJ.11.01.02](#), The ICFAI University Journal, Ranchi, India (National).
23. Misra, L, and Satpathy, J. (2023). Experiments in Neuro - Economic Decisions, Proceedings of International Conference on Digital Transformation for Sustainable Business Performance, Mar 16 - 17 2023, ICFAI University, Jharkhand, Ranchi, India, (International).
24. Mohanty, V. and Satpathy, J. (2020). Neuro - Reflections in Work - Family Enrichment, Online Multidisciplinary International Conference on Transformation and Survival Post Pandemic, 14 - 15 Oct, 2020, School of Management, Ajeenkya DY Patil University, Pune, India (National). Published in SHODH SARITA (international) Journal, Vol.7, Issue.28, Oct - Dec 2020, Pune, India
25. Mohanty, V., Sahoo, K. and Satpathy, J., Okeyo, W. and Mello, L. (2021). Contentment Quotient in Work - Family Fortification, Proceedings of National Level Virtual - Conference, Mental Health in an Unequal World Challenges in Social Sciences, Management, Information Science, Education, 20 Nov 2021, Srinivas University, Mangaluru, India (International).
26. Mohanty, V., Satpathy, J. and Shinde, D. (2021). Perceptive Cross Currents in Vocational Training, Online International Conference on Innovations in
27. Sahoo, K. & Satpathy, J. (2022). Leveraging Management of Entrepreneur Talent, Proceedings of the 5th Research Compendium

- of Personnel Today, National Institute of Personnel Management, Pune Chapter, Maharashtra, India. (National)
28. Sahoo, K. & Satpathy, J. Mohanty, V., Subramaniam, K. & Raj, K. (2021). Cognito - Tectonics in Stress Induced Emotional Behaviour, Journal of YMER, / ISSN: 0044-0477, Volume 20: Issue 11, DOI Number: 10.37896/YMER, 20.11 / 31, (Nov) 2021, Pp: 340 - 368, India (International). Scopus
 29. Sahoo, K. and Satpathy, J. (2021). Alarms in Entrepreneurial Quasi-Rational Decisions, Proceedings of 07 th International Conference on Global Business Environment, IMI - EGADE Spain, December 10-11, 2021, Paper Id: 56 IMI Bhubaneswar, India (International).
 30. Sahoo, K. and Satpathy, J. and Laza, S. (2021). Philosophical Undercurrents in Neuro - Organizational Economic Behaviour, IJAEM, Volume 3, Issue. 11, Pp: 381 - 409, Nov. 2021, DOI: 10.35629/5252-0311381409, Impact Factor value: 7.429, India (International).
 31. Sahoo, K., Satpathy, J., Raj, K. & Aithal, P.S. (2021). Neuro - Experimentations in Emotive Continuum, Proceedings of International Conference on Academic Research and Innovation in Management, IT, Social Science and Education) ICARI), 24 - 25 Nov 2021, Srinivas University, Mangaluru, India in collaboration with European International University, Paris, France (International).
 32. Sanfey, A. G. (2007). Decision Neuroscience New directions in judgment and decision making. Current Directions in Psychological Science, 16(3), 151-155. [Google Scholar](#)
 33. Satpathy, J. & Aithal, P.S. (2023). Neuro - Probabilistic Endoscopy In Brunswick's Lens Decisions, International Conference on Advances in Health, Safety, Fire, Environment, Allied Science and Sustainability (HSFEAS - 2023), Date: 29-30 November, 2023, G D Goenka, India
 34. Satpathy, J. and Mishra, D. P. (2019). Oculo - Empirical Signatures in Lending Decisions, A Journal of Composition Theory (JCT), UGC - CARE Group 'A' Journal Approval Number: 18482, Volume XII, Issue VIII, August, Pp: 352-376, DOI: 19. 18001. AJCT. 2019. V12I7.19.10048, Karnataka, India (National).
 35. Satpathy, J. and Mishra, D. P. (2020). Cognitive Reconnaissance in Lending Comportment, Journal of Mukht Shabd, UGC - CARE Group - I Journal, ISSN: 2347 - 3150, Vol. IX, Issue IV (Special Issue - 2020 - 1), April, Pp: 56 - 73, Hyderabad, India (National).
 36. Satpathy, J. and Mishra, D. P. (2020). Neuro - Heterodoxies in Loan Decision Topography, Journal of Information and Computational Science, ISSN 1548 - 771, UGC - CARE Group II Journal, Volume 10, Issue 03, Pp: 963 - 975, India (International).
 37. Satpathy, J. and Misra, L. (2023). Great Debate' In Neuro - Management, Journal of NIPM, Utkal Chapter, Vol. 15, Issue.2, ISSN: 2229 - 6506, December (Winter Issue) 2023 Issue, Bhubaneswar, India (National).
 38. Satpathy, J., Aithal, P.S., Okeyo, W., Misra, L., Das, A., Sherrington, A.R.S., Moreira, A., Arce, A.L., Mallik, B., and Laza, S. (2023). Complexities in Decisional Disordered Embroidery, Journal of Acta Scientific Neurology, Volume. 6, Issue. 10, October 2023, Pp: 37-72, India (International).
 39. Satpathy, J., Aithal, P.S., Okeyo, W., Singh, A., Misra, L., Laza, S., Lockhart, J. and Torben, L. (2023). Neuro - Economic Soundings In Industry 7.0, Being presented at the International Seminar on Accounting, Finance, Business and Social Sciences (ISAFBS'23), September 14 - 16th, 2023, Dept. of Business Administration, Assam University, Silchar (India) in collaboration with Alabama A & M University, USA and Department of Management, North Eastern Hill University, Shillong, India (International).
 40. Satpathy, J., Aithal. P.S., Misra, L., Das, A., Singh, A., Jamali, D., Rolle, J.A. (2023). Neuro - Probabilistic Functionalism Endoscopy in Brunswick's Lens Decisions, Roots International Journal of Multidisciplinary Researches, ISSN: 2349-8684, Vol. 10, No. 1 (August 2023), Pp: 55 - 68, India (International).
 41. Satpathy, J., and Arif, A. (2024). Operational Research Foundations in Ophthalmic Based Decisions, Proceedings of the International Conference on Managerial Excellence & Sustainable Growth: IT & Operational Issues, Biju Patnaik Institute of Information Technology and Management Studies, In collaboration with Operations Research Society of India (Bhubaneswar Chapter), (ICMESG-2024), Feb 17, 2024, Bhubaneswar, Odisha, India (International). Accepted and Forthcoming.
 42. Satpathy, J., and Arif, A. (2024). Operational Research Foundations in Ophthalmic Based Decisions, Proceedings of the International Conference on Managerial Excellence & Sustainable Growth: IT & Operational Issues, Biju Patnaik Institute of Information Technology and Management Studies, In collaboration with Operations Research Society of India (Bhubaneswar Chapter), (ICMESG-2024), Feb 17, 2024, Bhubaneswar, Odisha, India (International).

43. Satpathy, J., Hejmadi, A., Weis, L. & Mishra, S. (2022). Meta - Cognitive Soundings in Preference Making (Abstract), Proceedings of International Conference on Managerial Business Practices and Theories Post COVID, 20 -21 Oct 2022, School of Management & Commerce, K. R. Mangalam University, Gurugram, India (International)
44. Satpathy, J., Hejmadi, A., Weis, L. and Mishra, S. (2022). Ophthalmologic Soundings in Business Decisions (Abstract), Proceedings of International Conference on Managerial Business Practices & Theories Post COVID, 20 -21 Oct 2022, School of Management & Commerce, K. R. Mangalam University, Gurugram, India (International).
45. Satpathy, J., Isai, M., Majumdar, A., Weir, D., Lockhart, J., Satpathy, M., Bonnsetter, R.J. & Gera, S. (2022). Neuro-Entrepreneurial Biology Protocols in Executive Decisions, Proceedings of International Conference on Research Trends, Strategies & Technical Advancements in Biological and Biomedical Sciences for Sustainability [(RTSTA'22)], 14 - 15 Dec, 2022, Department of Zoology, Seethalakshmi Ramaswami College, Bharatidasan University, Tiruchirappalli, India (International).
46. Satpathy, J., K., Sahoo, K., Saufi, R. B. A., Aithal, P. S., & Jijja, A., (2021), Neuro - Leadership: Exchange of Ideas with Dr Neuropsychonomist, International Journal of Advances in Engineering and Management (IJAEM), ISSN: 2395-5252, Volume No: 03, Issue No: 10, pp: 1143-1166, October, DOI: 10.35629/5252-031011431166, India (International).
47. Satpathy, J., Larsen, T., Lockhart, J. and Misra, L. (2023). Scalable - Vector based Soundings in Neuro - Economic Decisions, International Journal of Management Sciences & Business Research, Feb 2023, ISSN (2226-8235) Vol 12, Issue 02, Impact Factor 4.136, DoI, 10.5281 / zenodo. 7716328, Manchester, England (International). Reprinted in Roots International Journal of Multidisciplinary Researches as Scalable - Vector based Soundings in Neuro - Decisions, Vol. 09, Number. 03, Pp: 137 - 165, Feb 2023, ISSN: 2349-8684, With Authors; Aithal, P.S., Baikal, E., Warriar, U., Subramaniam, K., & Ozer, O., Madurai, India (International).
48. Satpathy, J., Larsen, T., Lockhart, J. and Misra, L. (2023). VUCA and BANI Matrices in Neuro - Farming Decisions, Proceedings of National Conference on Agriculture, Natural Resources & Rural Development, 24 - 25 May 2023, Dept. of Economics, Sidho Kanho Birsha University, Purulia, West Bengal, India (National).
49. Satpathy, J., Laza, S. and Choudhary, D. (2021). Brain, Mind and Neuroeconomics, IUJ Journal of Management, Vol 09, No.01, June (2021), Pp: 111 - 133, ICFAI University, Jharkhand, Chhattisgarh, India (National). Reprinted in Odisha Journal of Social Science, Vol.8, Issue-2, July, Pp: 72 - 90, 2021 India (National).
50. Satpathy, J., Laza, S., Choudhary, D. and Mishra, S. (2021). Hemato - Psychological Designs in Decision Architecture, International Journal of Management Sciences and Business Research, ISSN: 2226 - 8235, Vol. 10, Issue. 05, Pp: 52 - 86, London, United Kingdom (International).
51. Satpathy, J., Maheshkar, S. and Dharwadkar, K. (2019). Inquiry into Digitalised Neuro - Decision Making, Proceedings of International Conference on Industry 4.0: Engaging with Disruptions, 30 Sep - 01 Oct 2019, Global Business School and Research Centre, Dr D Y Patil University, Pune, India (International).
52. Satpathy, J., Maheshkar, S. and Laza, S. (2019). Neuro - Evidence Based Managerial Decisions, Journal of Science, Technology and Development, ISSN: 0950-0707, UGC - CARE Group 'A' Journal, Volume. VIII, Issue. IX, September, Pp: 357 - 374, India (National).
53. Satpathy, J., Majumdar, A. & Khatun, T. (2022). Random Thoughts in Conceptual Decision Geometry, The IUJ Journal of Management (IUJ-JOM), Issue: Vol. 10, Issue No. 2 (2022), ISSN: 2347-5080, The ICFAI University Journal, Ranchi, India (National).
54. Satpathy, J., Majumdar, A., Mallik, B.M., Mahapatra, D.R., Warriar, U., Khatun, T. & Okeyo, W. (2023). Neuro Soundings in Data - Driven Entrepreneurial Decisions, Submission No. 9953, Proceedings of 3rd International Conference on Management Research on 'Business, Technology, Innovation & Sustainability, ICMR 2023, Feb 23 - 24 2023, KIIT University, Bhubaneswar, India, (International).
55. Satpathy, J., Majumdar, A., Mallik, B.M., Mahapatra, D.R., Warriar, U., Khatun, T. & Okeyo, W. (2023). Neuro Soundings in Data - Driven Entrepreneurial Decisions, Submission No. 9953, Proceedings of 3rd International Conference on Management Research on 'Business, Technology, Innovation & Sustainability, ICMR 2023, Feb 23 - 24 2023, KIIT University, Bhubaneswar, India, (International).

56. Satpathy, J., Malhotra, S., Hejmadi, A., Pradhan, S., Sahoo, K. and Wadhwa, C. (2019). Endoscopic View of Neuro - Preference Connectionism, *European Journal of Business and Social Sciences*, ISSN: 2235-767X, Volume 07, Issue 06, June, Pp: 182 - 202, Zurich, Switzerland (International).
57. Satpathy, J., Malhotra, S., Hejmadi, A., Pradhan, S., Sahoo, K., and Wadhwa, C. (2019). Endoscopic View of Neuro-Choice Connectionism. *European Journal of Business and Social Sciences*. 01-21. [Google Scholar](#)
58. Satpathy, J., Mallik B. and Garg, S., Hejmadi, A. & Gankar, S. (2019). Skin Conductance in 'Smart' Managerial Judgement, *Proceedings of 4th International Conference on Management, Sciences, Engineering and Applications (ICMSEA - 2019)*, Centurion University, Odisha; Kaziranga University, Assam and University of Perpetual Help, Philippines, 19 - 21 Dec 2019, Vishakhapatnam, India (International). Reprinted in *Journal of Test Engineering and Management*, Id TM _ 110, USA. Scopus
59. Satpathy, J., Mallik, B. and Garg, S., Hejmadi, A. and Gankar, S. (2020). Skin Conductance in 'Smart' Managerial Judgement, *Journal of Test Engineering and Management*, ISSN: 0193 - 4120, Volume 83, Pp: 17581 - 17588, Mar - Apr 2020, The Mattingley Publishing Co., Inc., California, (USA) (International). Scopus
60. Satpathy, J., Mallik, B., and Gorg, S. (2019). Skin Conductance in 'Smart' Managerial Judgement. Available at SSRN 3485507. [Google Scholar](#)
61. Satpathy, J., Mishra, I. & Das, D. P. (2021). Neuro - Hematological Strategy in Entrepreneurial Decision (Extended Abstract), *Proceedings of the International Conference on Re - inventing the future of Work and Business: Challenges, Opportunities and the Path Ahead*, Feb 27 - 28, Pp: 252, Code: STG-9, KIIT School of Management, KIIT University, Bhubaneswar, Odisha, India (International)
62. Satpathy, J., Mishra, I., Laza, S., Padhi, S. & Das, D.P. (2020). Perceptive Entrepreneurial Decision Comportment, *Journal of the Social Sciences*, Academic Publication Council (APC), July 2020, Vol 48 (Issue 03), Pp: 1156 - 1165, E-ISSN: 0975-8935 P-ISSN: 0253-1097, Impact Factor: 6.120, Prinses Beatrixlaan, Kempston, Kuwait (International). Scopus
63. Satpathy, J., Mishra, I., Padhi, S and Das, D. P., (2020), Insightful Entrepreneurial Behaviour Department, Palarch's Journal of Archaeology of Egypt / Egyptology, Vol. 17(6), 1705 - 1720, ISSN 1567-214 X, Egypt, (International). Scopus
64. Satpathy, J., Misra, L. & Subramaniam, K. (2023). The Great Debate in Neuro-Management, *Proceedings of International Conference on Ancient Indian Knowledge System and Modern Business Management*, April 14-15, 2023, Vivekananda Global University, Jaipur, India (International).
65. Satpathy, J., Misra, L. and Arif, A. (2024). Conceptual Questions in Neuro - Decision Procedures, *Proceedings of Conference on Neuro Management and Leadership Management for March 02, 2024*, National Conference on Neuro - Management & Leadership, Vivekananda Global University, Jaipur, Rajasthan (International).
66. Satpathy, J., Misra, L. and Arif, A. (2024). Hemato - Cerebral Protocol in Neuro - Decisions, *Proceedings of Conference on Neuro Management and Leadership Management for March 02, 2024*, National Conference on Neuro - Management & Leadership, Vivekananda Global University, Jaipur, Rajasthan (International).
67. Satpathy, J., Misra, L. and P.S., Roza J. (2023). Ocular - Peep into Entrepreneurial Decisions, *International Conference on Connecting Social, Financial and Human Sciences for Sustainable Development*, Technical Session No. 4, KIIT University, Bhubaneswar, India , 05 May 2023, Bhubaneswar, India (International).
68. Satpathy, J., Misra, L. and Warriar, U. (2023). Geometric Paths in Fluid Intellect, Poster, 17th Annual Neuropsychoeconomic Conference, 08 - 09 June 2023, University of Granada, Granada, Spain (International).
69. Satpathy, J., Misra, L. Larsen, T., Lockhart, J. and Ozer, O. (2023). Experiments in Managerial Decision Behaviour, Paper Number: 00085, *Proceedings of International Conference on Management Practices for Sustainable Future*, April 07 - 08, 2023, School of Management Studies, Sangam University, Bhilwara, Rajasthan, India (International).
70. Satpathy, J., Misra, L., Singh, A. and Torben, L. (2023). Business - Economic Decisions In 'Zwicky' Morphological Frame, *Proceedings of II International Conference on Engineering, Social Sciences & Management*, 22 June 2023, Department of Applied Sciences & Department of Master of Computer Application, Sri Balaji College of Engineering & Technology, Rajasthan Technical University, Jaipur, India (International). Accepted &

71. Satpathy, J., Misra, L., Singh, A. and Torben, L. (2023). Mathematical Doodling In Tracking Resilient Choice Neuro - Pathways, II International Conference on Engineering, Social Sciences & Management, June 22nd, 2023, Department of Applied Sciences & Department of Master of Computer Application, Sri Balaji College of Engineering & Technology, Rajasthan Technical University, Jaipur, India (International).
72. Satpathy, J., Molly, J. and Sivaraman, S. (2023). Fluid Intelligence in Managerial Decisions, National Conference on Intelligence: Animals, Humans & Machines, Dept. of Psychology, Kristu Jayanti College, Bangalore & National Institute of Advanced Studies, Bangalore, , 18 - 19 April 2023, Bangalore, India (National).
73. Satpathy, J., Monika, M., K., Sahoo, K., Saufi, R. B. A., Moreira, A. M. P., Fathuma H. A. F. and Sindhi, S., (2021), Ophthalmic - Curvatures in Entrepreneurial Decisions, Pramana Research Journal (PRJ), ISSN 2249 - 2976, Paper Code: PRJ/P1837, DOI: 16.10089.PRJ.2021.V11I10.20.9505, Volume 11, Issue 10 (October 2021), Pp: 29 - 41, Pune, India (International).
74. Satpathy, J., Moreira, A. M. P., Mallik, B., Weiss, L. and Saufi, R. B. A. (2021). Behavioural Transmitters in Sustainable Entrepreneurial Decision, (Abstract), International Conference on Financial Inclusivity and Corporate Social Responsibility and Sustainable Development, School of Commerce and Economics, KIIT Deemed to be University, September 5, 2021 Bhubaneswar, India (International).
75. Satpathy, J., Okeyo, W, Salmi Mohd I., Lockhart, J., Larsen, T., Rolle, J., Subramaniam, K. & Aithal, P.S. (2023). Neuro - Signatures In C-3 Economic Decisions, Proceedings of the National Conference on Changing Dynamics of Economic and Financial Sector: Issues & Challenges for Sustainable Development*, March 04-05, 2023, Birla Global University, Bhubaneswar, India (National).
76. Satpathy, J., Okeyo, W., Aithal, P.S., Roza J. and Misra, L. (2023). Configurations in Entrepreneurial Decision Making, International Conference on Connecting Social, Financial and Human Sciences for Sustainable Development, Technical Session No. 4, KIIT University, Bhubaneswar, India , 05 May 2023, Bhubaneswar, India (International).
77. Satpathy, J., Okeyo, W., Allouch, A. and Moreira, A. (2024). Optometric Soundings in Entrepreneurial Decisions, Proceedings of the 10th International Conference on Management and Leadership, The Management University of Africa, Nairobi, Kenya (International). Accepted and Forthcoming.
78. Satpathy, J., Okeyo, W., Allouch, A. and Moreira, A. (2024). Optometric Soundings in Entrepreneurial Decisions, Proceedings of the 10th International Conference on Management and Leadership, The Management University of Africa, Nairobi, Kenya (International).
79. Satpathy, J., Okeyo, W., Ana, R.H., A., Salmi, I., Aithal, P. S., Sindhi, S. (2023). Fluid Intelligence in Unpredictability Quadrant Behaviour, Proceedings of International Conference on Dynamic Quadrants in the World of Commerce, Feb 16 - 17 2023, Bishop Heber College, Tiruchirapalli, India, (International).
80. Satpathy, J., Okeyo, W., Isa, S. M., Lockhart, J., Larsen, T. B., Rolle, J. A., ... and Aithal, P. S. (2023). Neuro-Signatures in C-3 Economic Decisions. Available at SSRN 4352320. pp. 01-26. [Google Scholar](#)
81. Satpathy, J., Okeyo, W., Torben, L. Lockhart, J. Misra, L. and Aithal, P. (2023). Neuro – Protocols in Economic Decisions, International Conference on Emerging Trends in Social, Business and Management Science Research (ICSBMR), Vellore Institute of Technology, Vellore, India , 04 May 2023, Vellore, India (International).
82. Satpathy, J., Okeyo, W., Torben, L., Rodriguez, A.S.S. Moreira, A., Ramirez, J. C., Allouch, A. and Aithal, P.S. (2023). Neuro - Optometric Investigations in Managerial Decisions, Bulletin for Technology and History Journal, ISSN No. 0391 - 6715, Volume 23, Issue 09, DOI:10.37326 / bthnlv22.8 / 1287, Pp: 069 - 283, September, 2023, India. Scopus
83. Satpathy, J., Pati, P., Hejmadi, A., Gankar, S. and Malhotra, S. (2019). Visual Monikers in Entrepreneurial Choices, Journal of ITIHAS: The Journal of Indian Management, July - September Issue, ISSN Number - 2249-7803 (P), ISSN Number - 2456-7302, Page 51 - 55, India (National).
84. Satpathy, J., Pati, P., Hejmadi, A., Gankar, S. and Malhotra, S. (2019). Visual Monikers in Entrepreneurial Choices, European Journal of Business and Social Sciences, ISSN: 2235-767X, Volume 07, Issue 05, May, Pp: 374 - 380, Zurich, Switzerland (International).
85. Satpathy, J., Pati, P., Rozarina, J.A., Ahmad, S., Mishra, I., Dash, D. P., Padhi, S., Laza, S., Wadhwa, C. & Neena, P. C. (2020), Noetic Alleyways: Choosing to Choose or Deciding

- to Decide, Journal of Strad Research, Web of Science Group, UGC - CARE Group II Journal, Impact Factor 6.1, ISSN 0039 - 2049, Vol (7), Issue (7), Pp: 500 - 513, India (National). Web of Science Group
86. Satpathy, J., Ramirez, J. C., and Dussan D. D., (2023). Decision Spatial Connectivity in Eye Movement Approximations, Bulletin for Technology and History Journal, ISSN No. 0391 - 6715, Volume 23, Issue 09, DOI:10.37326/bthnlv22.8/1296, Pp: 403 - 488, September, 2023, India. Scopus
 87. Satpathy, J., Ramirez, J. C., Sherrington, A.S., Allouch, A., Arce, A. I., Tudor, I.V., Subramaniam, K., and Adriana, I.A.S. (2023). One Gaze Is Worth Infinite Words (Study on Cognito - Attention Based Neurointegral Model), International Journal of Research in Engineering and Science (IJRES), ISSN (Online): 2320-9364, ISSN (Print): 2320-9356, Vol. 11, Issue. 09, September 2023, Pp. 219-272, India (International).
 88. Satpathy, J., Routray & Misra, L. (2023). Anatomical Peep into Resilient Decision Pathways, National Conference Building & Sustaining High Performance through Organizational Resilience & Innovation, 21 - 22 2023, Department of Business Management, Fakir Mohan University, Balasore, India in collaboration with Association of Indian Management Schools (AIMS), Hyderabad, India (National).
 89. Satpathy, J., Routray and Misra, L. (2023). Debate in Neuroentrepreneurial Modus Operandi, National Conference Building & Sustaining High Performance through Organizational Resilience & Innovation, 21 - 22 2023, Department of Business Management, Fakir Mohan University, Balasore, India in Collaboration with Association of Indian Management Schools (AIMS), Hyderabad, India (National).
 90. Satpathy, J., Roza, J. Chowdhury, D. and Misra, L. (2023). Complexities in Ophthalmic - Based Business Decisions, Roots International Journal of Multi-Disciplinary Researches, ISSN: 2349-8684, Volume. 09, Issue.04, Pp: 91 - 106, May 2023, Madurai, India (International).
 91. Satpathy, J., Sahoo, K. & Gankar, S. (2021). Avant-Garde Stratagems in Future Neuroleadership (Extended Abstract), Proceedings of the International Conference on Re - inventing the future of Work and Business: Challenges, Opportunities and the Path Ahead, Feb 27 - 28, Pp: 30, Code: HR-29, KIIT School of Management, KIIT University, Bhubaneswar, Odisha, India (International)
 92. Satpathy, J., Satpathy, M. & Sahoo, K. (2022). Anthropocentricity On Resilient Business Neuro - Leadership, Annual Conference of Global Institute of Flexible Systems Management, April 21-23 2022, Indian Institute of Management Shillong, Shillong, India (International)
 93. Satpathy, J., Satpathy, M., & Sahoo, K. (2022). Cognito Fluctuations in Decision Making, Poster, Poster No. C -18, 9th Mind-Brain-Body Symposium 2022, 16 - 18 March 2022, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany (International).
 94. Satpathy, J., Tudor, I. V. and Arif, A. (2024). Ophthlmo-Mathematical Soundings In Managerial Decisions, International Conference On Role Of Mathematics For The Development Of Science And Society (ICRMDSS-2023), Department Of Mathematics, Tripura University, December 21-22, 2023, Agartala, Tripura, India (International).
 95. Satpathy, J., Tudor, I. V. and Arif, A. (2024). Ophthlmo-Mathematical Soundings In Managerial Decisions, International Conference On Role Of Mathematics For The Development Of Science and Society (ICRMDSS-2023), Department Of Mathematics, Tripura University, December 21-22, 2023, Agartala, Tripura, India (International).
 96. Satpathy, J., Wadhwa, C., Rodriguez, C. M., Hejmadi, A. & Laza, S. (2020). Neuro - Curvatures in Business Decisions (Poster), Proceedings of NeuroPsychoEconomics Conference, Serial: Pp: 10, 11 - 12, June 2020, NeuroPsychoEconomics Conference (Zoom), (International).
 97. Satpathy, M. and Satpathy, J. (2022). Knowledge Transmission from Neuropsychonomics to Management in Crafting Decisions, (Competitive Paper), Track: Organizational Behaviour, 18th NeuroPsychoEconomics Conference, June 09 - 10, 2022, Lille, France. (International).
 98. Satpathy, M., & Satpathy, J. (2022). Some Controversies on Creativity versus Intelligence, Poster, 7th meeting of Society for Neuroscience of Creativity (SfNC), 12 - 13 May 2022, Washington, DC 20057 (International).
 99. Satpathy, M., Satpathy, J. & Laza, S. (2022). Game Theoretic Economics in Neurodecisions, Journal of IJBMSR, Feb-2022 ISSN (2226-8235) Vol-11, Pp: 01 - 13, Issue 2, Manchester, UK, (International)
 100. Schwartz, J., Thomson, J., and Kleiner, A. (2017). The Neuroscience of strategic

- leadership. *Organization and People*, 87(1), 01-10 [Google Scholar](#)
101. Serra, D. (2021). Decision-making from Neuroscience to Neuromanagement—an overview. *Theory and Decision*, 91(1), 1-80. [Google Scholar](#)
102. Sharma, A. (2020). Neuro-Management A Key to Maintain Performance. *New Paradigms in management and social sciences*, 19. IS/BN No 978-81-948872-7-0. [Google Scholar](#)
103. Singh, A. and Satpathy, J. (2023). Livelihoods and Entrepreneurship among Women Self-Help Group Members in Rajasthan: An Evidence-Based Study, *Proceedings of National Conference On Women Across Disciplines*, 7 - 8 August, 2023, Department of Lifelong Learning, University of Rajasthan, Jaipur, India (National).
104. Thomas RECORDING GmbH, high-speed Eye Tracking Systems for neuro-scientific purposes [\[6\]](#)
105. Torben, L. and Satpathy, J. (2023). Heterodox Economics in Human Quality of Life, *Proceedings of the International Conference on Innovation, Skills and Innovative Development*, [ICISID 2023], Dt. 10 - 11 Nov 2023, Dept. of Economics and Centre for Social Exclusion and Inclusive Policy [CSEIP], Berhampur University, Odisha, India (International).
106. Vagras, J.C.R., Satpathy, J. and Misra, L. (2024). Optimizing Decisions through Neuroplasticity and Cognitive Training, *Proceedings of Conference on Neuro Management and Leadership Management for March 02, 2024, National Conference on Neuro - Management & Leadership*, Vivekananda Global University, Jaipur, Rajasthan (International).
107. Vartanian, O., and Mandel, D. R. (Eds.). (2011). *Neuroscience of decision making*. Psychology Press. [Google Scholar](#)
108. Veneri, G; Federighi, P; Rosini, F; Federico, A; Rufa, A (2010). "Influences of data filtering on human-computer interaction by gaze-contingent display and eye-tracking applications". *Computers in Human Behavior*. 26 (6): 1555–1563. [doi:10.1016/j.chb.2010.05.030](#).
109. Yoon, Carolyn, Richard Gonzalez, Antoine Bechara, Gregory S. Berns, Alain A. Dagher, Laurette Dubé, Scott A. Huettel et al. 'Decision Neuroscience and consumer decision making.' *Marketing letters* 23 (2012) 473-485. [Google Scholar](#).