PROGRAM – OCTOBER 1, 2024

TIME	LOCAL	ACTIVITY
8 am	**Room B-09 - Ludus Lab**	**REGISTRATION**

9 am to 10:30 am	**EST Auditorium - Block C**	**OPENING CEREMONY**

10:30 am to 11 am	**Ground floor - STEM**	**COFFEE BREAK**

11 am to 12 pm	**EST Auditorium – Block C and YouTube Broadcast at the Auditorium STEM**	**What do image generators know?** **Keynote: David Forsyth**

12 pm to 1:30 pm		**LUNCH**

1:30 pm to 3 pm	**Room D-1**	**Technical Session 1 (Health):** Fast spline collision detection (FSCD) algorithm for solving multiple contacts in real-time *Lucas Zanusso Morais (Universidade Federal do Rio Grande do Sul - Brazil), Marcelo Gomes Martins (Universidade Federal do rio Grande do Sul - Brazil), Anderson Maciel (Higher Technical Institute - Portugal), Rafael Torchelsen (Universidade Federal de Pelotas - Brazil), Luciana Nedel (Universidade Federal do Rio Grande do Sul - Brazil)*
		Technical Session 1 (Health): Analysis of Cybersickness through Biosignals: an approach with Symbolic Machine Learning *Wedrey Silva (Universidade de Brasília – Brazil), Thiago Porcino (PUC-Rio – Brazil), Carla Castanho (Universidade de Brasília – Brazil), Ricardo Jacobi (Universidade de Brasília – Brazil)*
		Technical Session 1 (Health): Adaptive Virtual Reality Solutions: A Literature Review *Pedro Henrique Barcha Correia (USP – Brazil)*
		Technical Session 1 (Health): Enhancing Empathic Communication in Healthcare Education Through Virtual Conversations: Leveraging Large Language Models for Real-Time Feedback *Heng Yao (University of Florida – USA), Alexandre Gomes de Siqueira (University of Florida – USA), Margeaux Johnson, (University of Florida – USA), Benjamin Lok (University of Florida – USA), Roberta Pileggi (University of Florida – USA), Amy Blue, (University of Florida – USA), Rene Love (University of Florida – USA), Michael Bumbach (University of Florida – USA)*
		Technical Session 1 (Health): 3D Molecular Visualization from Structural Formulas: An Interactive Approach *Eduardo Amorim, (Inst. Federal Goiano – Brazil), Ana Valdo, (Inst. Federal Goiano – Brazil), Fabrízzio Alphonsus Alves de Melo (Universidade Federal de Goiás – Brazil), Nunes Soares, (Inst. Federal Goiano – Brazil), Luciana Cardoso, (Inst. Federal Goiano – Brazil), Renan Vinicius Aranha, (Universidade federal do Mato Grosso – Brazil), Juliana Felix, (Universidade Federal de Goiás – Brazil), Thamer Horbylon Nascimento (Inst. Federal Goiano – Brazil)*

2 pm to 3 pm	**EST Auditorium – Block C**	**Panel 1:** From Virtual Reality to Digital Twins: The Long and Winding Road! **Panelists**: *Alexandre Cardoso (Universidade Federal de Uberlândia), Alexandre Gomes de Siqueira (University of Florida – USA), Ismar Frango Silveira (Universidade Presbiteriana Mackenzie)* **Moderator**: *Valéria Farinazzo Martins (Universidade Presbiteriana Mackenzie)*

3 pm to 3:30 pm	**Ground floor - STEM**	**COFFEE BREAK AND POSTER SESSION**

	Room D-1	**Technical Session 2 (Education):** Introduction to Gauss's Law in Electromagnetism through a Virtual Reality Application

3:30 pm to 5:30 pm		*Mario Mestria (Instituto Federal do Espírito Santo – Brazil), Luiz Borges (IFES – Brazil), Rodrigo Andreão (Instituto Federal do Espírito Santo – Brazil), Marcelo Schimidt (IFES – Instituto Federal do Espirito Santo – Brazil), Celio Marques (Instituto Federal do Espirito Santo – Brazil), Gilmar S. Dias (Instituto Federal do Espírito Santo – Brazil)*
		Technical Session 2 (Education): Methods for Evaluating Immersive Three-Dimensional Virtual Environments: a Systematic Literature Review *Fabiana Peres (Unioeste – Brazil), Fátima Nunes (EACH-USP – Brazil), João Marcelo Teixeira (UFPE – Brazil), Claudio Mauricio (Unioeste – Universidade Estadual do Oeste do Paraná – Brazil), Leina Yoshida (Unioeste – Brazil), Katiani Pereira da Conceição (Universidade Estadual Paulista – Brazil)*
		Technical Session 2 (Education): XiloVR: Preserving Cultural Heritage Through a Virtual Reality-Based Woodcutting Simulation *Samuel Costa (Digital Metropolis Institute – Brazil), Bianca Miranda (University of Rio Grande do Norte – Brazil), Stefane Orichuela (Universidade Federal do Rio Grande do Norte – Brazil), Everardo Araújo Ramos (Federal University of Rio Grande do Norte – Brazil), Olavo Fontes Magalhães Bessa (Federal University of Rio Grande do Norte – Brazil), Alyson Souza (Universidade Federal do Rio Grande do Norte – Brazil)*
		Technical Session 2 (Education): The challenge of stress induction in serious games, considering gameplay *Thiago Gonçalves (PUC-Rio – Brazil), Greis Francy M. Silva-Calpa (Pontifical Catholic University of Rio de Janeiro – Colombia), Thiago Porcino (PUC-Rio – Brazil), Raphael Almeida (PUC-Rio – Brazil), Alberto Raposo (PUC-Rio – Brazil)*
		Technical Session 2 (Education): Machine Learning Applied to Locomotion in Virtual Reality *Fernando Sakabe (Insper – Brazil), Fábio Ayres (Insper – Brazil), Luciano Soares (Insper – Brazil)*
		Technical Session 2 (Education): Attention Guidance through Video Script: A Case Study of Object Focusing on 360° VR Video Tours *Paulo Vitor Santana da Silva (Universidade Federal de Goiás – Brazil), Arthur Ricardo Sousa Vitória (Universidade Federal de Goiás – Brazil), Diogo Fernandes Costa Silva (Universidade Federal de Goiás – Brazil), Arlindo Rodrigues Galvão Filho (Universidade Federal de Goiás – Brazil)*
		Technical Session 2 (Education): Gesture Recognition in Smartwatches Using LSTM for Interaction in Low-Cost Virtual Environments *Leonardo Yago Nascimento Silva (Instituto Federal Goiano – Campus Iporá – Brazil), Fabrízzio Alphonsus Alves de Melo Nunes Soares (Federal University of Goiás – Brazil), Luciana Cardoso (Instituto Federal de Educação, Ciência e Tecnologia Goiano – Campus Iporá. – Brazil), Renan Vinicius Aranha (UFMT – Brazil), Thamer Horbylon Nascimento (Instituto Federal Goiano – Brazil), Juliana Felix (Universidade Federal de Goiás – Brazil)*
		WTD - Workshop of Theses and Dissertations: Experimentação Remota e Simulações 3D aplicadas ao estudo da propagação das ondas eletromagnéticas por meio da Aprendizagem Baseada em Projetos (Remote Experimentation and 3D Simulations Applied to the Study of Electromagnetic Wave Propagation through Project-Based Learning) *Izac Silva (Instituto Federal do Amazonas – Brazil), Vitor Bremgartner (Federal Institute of Amazonas (IFAM) – Brazil), Marisa Cavalcante (UFAM – Brazil)*
		WTD - Workshop of Theses and Dissertations: Realidade aumentada como recurso pedagógico para docentes dos anos iniciais do ensino fundamental (Augmented Reality as an Educational Resource for Early Elementary School Teachers) *Silvana Borborema (Unioeste – Brazil), Claudio Mauricio (Unioeste – Universidade Estadual do Oeste do Paraná – Brazil)*
		WTD - Workshop of Theses and Dissertations: Augmenting the dark: Exploring assistive micro-guidance in sonified mixed reality *Renan Guarese (RMIT – Australia)*
		WTD - Workshop of Theses and Dissertations: Jogo Sério Baseado em Realidade Virtual Associado ao Processamento de Sinal EMG e Feedback

	EST Auditorium – Block C	Sensorial para Treinamento de Prótese de Membro Superior (Virtual Reality-Based Serious Game Combined with EMG Signal Processing and Sensory Feedback for Upper Limb Prosthesis Training) *Reidner Santos Cavalcante (Universidade Federal de Uberlândia – Brazil), Edgard Lamounier (UFU – Brazil), Alcimar Soares (Universidade Federal de Uberlandia – Brazil)*
		WTD - Workshop of Theses and Dissertations: Explorando o Tour Virtual nos Museus de Pernambuco: Impacto, Desafios e a Experiência do Visitante (Exploring Virtual Tours in Pernambuco Museums: Impact, Challenges, and Visitor Experience) *Caliope Araújo (UFPE – Brazil), Joao Marcelo Teixeira (UFPE – Brazil)*
		WTD - Workshop of Theses and Dissertations: Computadores Fazem Arte: Um Estudo de Caso sobre o Potencial Social das NFTs através de Formações Didáticas (Computers Make Art: A Case Study on the Social Potential of NFTs through Educational Programs) *Manuella Silva (UFPE – Brazil), Joao Marcelo Teixeira (UFPE – Brazil)*
		WTD - Workshop of Theses and Dissertations: An AI and virtual reality-based computational model to simulate olfactory responses: proposing a research strategy *Yasmim Thasla Ferreira (SENAI CIMATEC – Brazil), Alexandre Gomes de Siqueira (University of Florida – USA), Carolina Horta Andrade (Federal University of Goias – Brazil), Ingrid Winkler (Centro Universitário SENAI CIMATEC – Brazil)*

5:30 pm to 7 pm	**Room D-1**	**CERV Plenary Meeting**

8 pm to 10 pm	**Cultural Activity: Musical Performance at the Amazon Theatre**