



PROGRAM AT A GLANCE

Time	Sunday, November 2								
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8:00	FIE Registration Opens								
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10:00	Using Story-Driven Learning to Support Students as STEM Professionals	Artificial General Intelligence Integration into Engineering Education, a Framework That Balances Technology with Human-Centered Skill Development		Write and Evaluate like a Pro for FIE: Excelling as an Author and Reviewer in Engineering Education Research		Intentional Integration of Reflection in Engineering and Computer Science Courses		Create Engaging and Accessible Materials with PreText	
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14:00	Podcast-Based Learning for Engineering and Computer Science Educators	Artificial Intelligence for Document Information Extraction and Synthesis: Advancing Research, Teaching, and Learning with LLMs and the TAIWO Framework		Communicating the Value and Contributions of Engineering Education Research to Multiple Stakeholders		Innovative K-12 Educator Sessions: Partnerships Between TryEngineering & Universities			
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Time	Monday, November 3								
6:30 - 9:30	Breakfast Harmony Restaurant								
7:00	Registration Opens								
8:00	Computing Undergraduate 1: Introductory Levels	Cultivating Adaptable Engineers Through Interdisciplinary and Contextual Learning Strategies	Gen AI 1: Assessment Design in Undergraduate Courses	Informal Learning Environments 1: Supporting Student Engagement, Motivation, and Research	Pedagogical & Instructional Approaches 1: Enhancing Learning, Critical Thinking, and Student Success	Broadening Participation 1: Advancing Theory in Computing and Engineering Education	Faculty Development & Perspectives 1: Becoming and Being a Faculty Member	Design Education 1: Advancing Systems Thinking, Industry Collaboration, and Innovative Practices	
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9:00	Technical Session Room: Riverbed A	Special Session Room: Riverbed B	Technical Session Room: Riverbed C	Technical Session Room: Riverbed D	Technical Session Room: Willow Pond A	Technical Session Room: Willow Pond B	Technical Session Room: Willow Pond C	Technical Session Room: Willow Pond D	Technical Session Room: Willow Pond E
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9:45	Focus on Exhibitors and Coffee Break								
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10:30	Computing Undergraduate 2: Hardware	Fostering Psychological Safety in Doctoral Advising Relationships	Gen AI 2: Autograding and Feedback in Undergraduate Courses	Informal Learning Environments 2: Fostering K-12 Student Learning	Pedagogical & Instructional Approaches 2: Enhancing Engagement and Learning through Active, Hybrid, and Immersive Methods	Broadening Participation 2: Deep Dive into Research Methods and Frameworks	Faculty Development & Perspectives 2: Enhancing Teaching Practices and Inclusive Pedagogies	Continuing Education: Fostering Student Learning through Online Platforms and Targeted Training	Design Education 2: Integrating Sociotechnical Considerations
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13:45	Computing Undergraduate 3: Pedagogical Approaches	Use of Generative AI for Designing and Evaluating Course Learning Objectives and Aligned Assessments	Gen AI 3: Chatbots and Tutors (1)	Informal Learning Environments 3: Engaging Students in Undergraduate Research	Pedagogical & Instructional Approaches 3: Enhancing Student Engagement and Motivation through Analytics, Gamification, and Innovative Teaching Strategies	Broadening Participation 3: Exploring Gender Based Disparities in STEM Education	Faculty Development & Perspectives 3: Fostering Support and Resilience of Faculty	Bridging Academia and Industry: Enhancing Workforce Readiness through Collaboration and Innovation	Design Education 3: Fostering Collaboration, Creativity, and Problem-Solving in Early Engineering Courses
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15:00	Focus on Exhibitors and Coffee Break								
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15:30	Computing Undergraduate 4: Cybersecurity	Artificial Intelligence for Research and Teaching: Adopting Emerging Technologies in Engineering Education	Gen AI 4: Chatbots and Tutors (2)	Competencies Development 1: Professional Skills and Global Experiences	Pedagogical & Instructional Approaches 4: Promoting Problem-Solving and Experiential Learning in Programming and Electrification	Broadening Participation 4: Support Systems and Student Perceptions	Faculty Development & Perspectives 4: Advancing Mentorship, Innovation, and Reflective Practices	Design Education 4: Supporting Learner Success and Incorporating Innovative Practices	
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16:45	Undergraduate Education Applications	Space Teams Academy-Transforming STEM Education Through Virtual Space Exploration	Gen AI 5: Chatbots and Tutors (3)	Competencies Development 2: Integrating Digital Skills and Innovative Technologies	Broadening Participation 5: Addressing Accessibility, Accommodations, and Barriers	Attitudes & Perceptions 1: Undergraduate Student Motivation and Identity	Curriculum & Course Design 1: Programming, Systems, and Circuits	Design Education 5: Collaborative and Community-Centered Projects	
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Time	Tuesday, November 4								
6:30 - 9:30	Breakfast Harmony Restaurant								
7:00	Registration Opens								
8:00	K-12 Education & Outreach 1: Innovative Technologies and Game-Based Approaches	Integrating Learning Sciences into Engineering and Computing Education Research: a Practical Framework	Gen AI 6: Impact on Programming Experiences	Traditional AI Applications	Pedagogical & Instructional Approaches 6: Innovative Approaches to Software, VR, and Robotics Education	Broadening Participation 6: Exploring Identity, Mental Health, and Support in Graduate Education	Attitudes & Perceptions 2: Cultivating Empathy and Professional Virtue	Curriculum & Course Design 2: Innovations in AI, Programming, and Ethical Competency Development	Integrating Technical and Professional Communication into the Engineering Curriculum: International Perspectives from Four Programs
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9:45	Focus on Exhibitors, Poster Session 1, and Coffee Break								
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10:30	K-12 Education & Outreach 2: Supporting Engagement and Career Connections	Practice-Based Research for Engineering Educators: Reflective Practices in Curriculum Design	Gen AI 7: Software Engineering in Undergraduate Courses	Emerging Trends and Insights from Literature Reviews	Pedagogical & Instructional Approaches 7: Enhancing Student Productivity, Metacognition, and Self-Assessment	Broadening Participation 7: Supporting Student Resilience and Stress	Attitudes & Perceptions 3: Technology Adoption, Digital Literacy, and Engagement	Curriculum & Course Design 3: Supporting Student Success and Development	Summer Bridge and First-Year Engineering Experience
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13:45	K-12 Education & Outreach 3: Building Teacher Competencies and Student Engagement	Design Your Ideal Work Group: Intentionally Structuring Research and Teaching Group Culture to Better Navigate Differences in Thinking	Gen AI 8: Code Quality and Analysis in Undergraduate Courses		Pedagogical & Instructional Approaches 8: Enhancing Project-Based Learning	Broadening Participation 8: Designing for Student Success	Attitudes & Perceptions 4: Fostering Resilience and Wellbeing	Curriculum & Course Design 4: Innovative Strategies for Teamwork, Design, and Skill Development	Computer-Based Instruction 1: Innovative Platforms and Collaborative Efforts
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15:00	Focus on Exhibitors and Coffee Break								
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15:30	K-12 Education & Outreach 4: Integrating Innovative Technologies and Interdisciplinary Approaches	A Hands-on Exploration of the Engineering Education Community in Our Ever-Changing World	Gen AI 9: Case Studies in Undergraduate Courses	Supporting Student Transitions into and within Universities	Pedagogical & Instructional Approaches 9: Fostering Leadership, Teamwork, and Mindfulness	Broadening Participation 9: Increasing Opportunities	Attitudes & Perceptions 5: Exploring Student and Instructor Experiences	Curriculum & Course Design 5: Enhancing Skill Development and Knowledge Integration	Computer-Based Instruction 2: Gamification and Digital Learning Environments
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16:45	K-12 Education & Outreach 5: Empowering Educators and Advancing Computational Thinking Across Grade Levels	Students' Experiences and Sense of Academic and Social Belonging Within the 'Globalized' Engineering Graduate Education: Translating Research into Practice	Gen AI 10: Broad Issues in Graduate Education	Academic & Institutional Change 1: Undergraduate Course Level Initiatives	Pedagogical & Instructional Approaches 10: Enhancing Student Engagement Through Hybrid, Collaborative, and AI-Driven Learning	Assessment 1: Measuring Skills, Character, and Performance	Attitudes & Perceptions 8: Fostering Support, Skills, and Professional Growth	Curriculum & Course Design 6: Implementing Active Learning and Innovative Assessment in First-Year Engineering Education	Computer-Based Instruction 3: Undergraduate Outcomes and Perceptions
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Time	Wednesday, November 5								
6:30 - 9:30	Breakfast Harmony Restaurant								
7:00	Registration Opens								
8:00	K-12 Education & Outreach 6: Computing	Scalable K-8 Math Support for Equitable Engineering Success	Gen AI 11: Innovative Applications	Academic & Institutional Change 2: Shaping Purpose, Skills, and Agency in Engineering Education	Pedagogical & Instructional Approaches 11: Exploring Goal Orientation, Engagement, and Problem-Solving	Assessment 2: Tools, Validation, and Insights into Competencies and Learning	Attitudes & Perceptions 7: Examining Student Capital, Affective Dimensions, and Pedagogical Strategies	Curriculum & Course Design 7: Teaching Concepts Beyond Engineering	
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9:45	Focus on Exhibitors, Focus on NFF Posters, and Coffee Break								
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10:30	K-12 Education & Outreach 7: Assorted Approaches and Technologies	A Chicana Feminist Approach to Supporting Latina Students in Engineering and Computing	AI in Instructional Support in Undergraduate Courses	Academic & Institutional Change 3: Use of Online, Game-Based, and Other Digital Platforms	Ethics and Policy in AI Education: Developing Competencies for Responsible Technology Use	Assessment 3: Advancing Methods for Effective Evaluation and Student Learning	Teaming & Teamwork 1: Strategies and Insights for Effective Collaboration	Curriculum & Course Design 8: Innovative Strategies for Foundational and Emerging Topics in Computer Science and Engineering	Computer-Based Instruction 4: Tools and Strategies for Teaching, Assessment, and Feedback
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13:30	Engineering Education Research Methods	Teaching the AI Curriculum in K-12: Technological and Engineering Education Imperatives for the 21st Century	AI in Graduate Education and AI Case Studies	Academic & Institutional Change 4: Innovations and Challenges in Graduate Education and Emerging Technologies	Advancing Ethics, Character, and Responsibility in Engineering Education	Assessment 4: Integrating Generative AI and Automated Tools in Programming Evaluation	Teaming & Teamwork 2: Strategies, Dynamics, and Data-Driven Approaches	Curriculum & Course Design 9: Exploring Student Retention, Persistence, and Academic Trajectories	Computer-Based Instruction 5: Gamification and Game-Based Learning for Engagement and Skill Development
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15:00	Focus on Exhibitors and Coffee Break								
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15:30	Innovations and Challenges in Curriculum, Competencies, and Research Development in Graduate Education	Engineering Is Humanitarian - Creating the Best Engineers for the Most Impact	AI Applications in K-12 Education	Academic & Institutional Change 5: A Focus on AI in Undergraduate Education				Curriculum & Course Design 10: Innovations and Strategies for Enhancing Education	Computer-Based Instruction 6: Immersive and Virtual Environments for Teaching and Learning
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