



PAPERS SESSIONS PROGRAM

SESSION A: INTELLIGENT TECHNIQUES APPLIED TO SOFTWARE

	Paper ID.	Title	Authors	Language	Chair
12:30 - 13:00	4	Software Design and Artificial Intelligence: A Systematic Mapping Study	Alfonso Robles-Aguilar, Jorge Octavio Ocharán-Hernández, Ángel J. Sánchez-García, Xavier	English	Jorge Aguilar
13:00 - 13:30	33	A novel software fault prediction approach to predict error-type proneness in the Java programs using Stream X-Machine and machine learning	Khoa Phung, Emmanuel Ogunshile, Mehmet Aydin		
13:30 - 14:00	24	Automatic Classification of Software Requirements Using Artificial Neural Networks: A Systematic Review	Delmer Alejandro López-Hernández, Jorge Octavio Ocharán-Hernández, Efrén Mezura-Montes, and Ángel J. Sánchez-García	English	
14:00 - 14:30	46	Towards automatic interpretation of statistical graphs for the visually impaired	Santiago Figueroa-Gutiérrez, Luis Gerardo Montané-Jiménez, Juan Carlos Pérez-Arriaga, José Rafael Rojano-Cáceres, Guadalupe Toledo-Toledo	Spanish	

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Tona	Gilberto Miguel	Alan Robledo

SESSION B: SOFTWARE TECHNOLOGY FOR LEARNING SYSTEMS

	Paper ID.	Title	Authors	Language	Chair
11:00 - 11:30	54	A 3D Metaphor for Software Code Visualization to Help Students to learn Object-Oriented Concepts	Hector G. Perez-Gonzalez, Alberto S. Nunez-Varela, Jugal Kalita, Francisco E Martinez-Pérez, Sandra E. Nava-Muñoz, César Guerra-García, Reyes Juárez-	English	Raúl A. Aguilar Vera
11:30 - 12:00	8	Using a Serious Video Game to Support the Learning of Tree Traversals	Eréndira M. Jiménez-Hernández, José A. Jiménez-Murillo, Miguel A. Segura-Castruita, and Ivonne González-Leal	English	
12:00 - 12:30	7	Use of techno-pedagogical tools to incorporate remote collaboration to programming in a data structure course	Carlos Enríquez-Ramírez, Mariza Raluy-Herrero, Luz Vega-Sosa	Spanish	

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SESSION C: SOFTWARE TECHNOLOGY FOR LEARNING SYSTEMS II

	Paper ID.	Title	Authors	Language	Chair
11:00 - 11:30	30	Mobile Educational Applications: Remote Usability Study	Yesenia Hernández-Velázquez, Carmen Mezura-Godoy, Viviana Yarel Rosales-Morales	Spanish	Carlos Fernández
11:30 - 12:00	50	A NEW PLAYFUL LANGUAGE BASED ON PEDAGOGICAL TOOLS FOR EXPLAINING GENETIC ALGORITHM BASIC CONCEPTS	Aneth Geraldine Ortiz-Lujano, Eduardo Vázquez-Santacruz, Flor Radilla-López, Elvia Morales-Turrubiates	Spanish	
12:00 - 12:30	12	Diseño de un Prototipo para Configuración de Entornos Virtuales de Aprendizaje basados en Gamificación utilizando UWE1	David I. Chán Chán, Raúl A. Aguilar Vera, Juan P. Ucán Pech, Julio C. Díaz Mendoza y Jesús A. Santos Tejero		

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SESSION D: SOCIAL MEDIA AND CYBERSECURITY

	Paper ID.	Title	Authors	Language	Chair
12:30 - 13:00	45	Geolocation of Tweets in Spanish with Transformer Encoders	Agustin-Daniel Ambrosio-Aguilar, Everardo Bárcenas, Guillermo Molero-Castillo, Rocío Aldeco-Pérez	Spanish	Samantha Jiménez
13:00 - 13:30	6	A social media case study on the impact of disinformation on businesses and consumers	Muteb Alobaid and Raj Ramachandran	English	
13:30 - 14:00	14	Web API Security vulnerabilities and mitigation mechanisms - A systematic mapping study	Josué Alejandro Díaz-Rojas, Jorge Octavio Ocharán-Hernández, Juan Carlos Pérez-Arriaga, Xavier Limón	English	
14:00 - 14:30	29	Cybersecurity practices at the initial stages of the Software Engineering Process	Hugo Gonzalez, Rafael Llamas-Contreras, César Guerra-García	English	

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SESSION E: INTELLIGENT TECHNIQUES APPLIED TO SOFTWARE II

	Paper ID.	Title	Authors	Language	Chair
13:30 - 14:00	47	Classification Algorithms for Software Defect Prediction: A Systematic Literature Review	Ma. José Hernández-Molinos, Angel J. Sánchez-García, R. Erandi Barrientos-Martínez	English	Juan P. Ucán Pech
14:00 - 14:30	32	Automatic Grading of Programming Assignments in Moodle	Erick Franco Gaona, Celeste Esperanza Pérez Camacho, Wendy Morales Castro, José Carmen Morales Castro, Alejandro Daniel Sánchez Rodríguez, Maria Susana Avila-Garcia	English	

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14:30 - 15:00	21	Improving Impact and Dependency Analysis through Software Categorization Methods	Egbeyong Tanjong, Doris Carver	English	
15:00 - 15:30					

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SESSION F: SOFTWARE METHODOLOGIES AND PRACTICES

	Paper ID.	Title	Authors	Language	Chair
13:30 - 14:00	51	How COVID-19 pandemic affects software developers' wellbeing: An exploratory study in the west border area of Mexico-USA	Reyes Juárez-Ramírez, Verónica Tapia-Ibarra, Samantha Jiménez, Christian X. Navarro, César Guerra-García, Hector G. Perez-Gonzalez	English	Alan Ramírez
14:00 - 14:30	31	Accessibility in the Software Development Life Cycle: A Systematic Literature Review	Mauricio Cruz-Portilla, Juan Carlos Pérez-Arriaga, Jorge Octavio Ocharán-Hernández, Ángel J. Sánchez-García	English	
14:30 - 15:00	5	Towards a Taxonomy of Agile Methods: The Tree of Agile Elements	Michael Neumann	English	

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SESSION G: MODELING AND FORMAL METHODS

	Paper ID.	Title	Authors	Language	Chair
11:30 - 12:00	27	Regression Models in Software Quality: A Systematic Literature Review	Saarayim González-Hernández, Angel J. Sánchez-García, Karen Cortés-Verdín, Juan Carlos Pérez-Arriaga	Spanish	César Guerra
12:00 - 12:30	36	Modeling Diseases with Stream X machine	Senerath Jayatilake, Emmanuel Ogunshile, Mehmet Aydin, Khoa Phung		
12:30 - 13:00	39	Tender System Verification with Satisfiability Modulo Theories	René Dávila, Rocío Aldeco-Pérez, Everardo Bárcenas		
13:00 - 13:30	9	Association and aggregation class relationships: is there a difference in terms of implementation?	María del Carmen Gómez-Fuentes, Jorge Cervantes-Ojeda, Abel García Nájera	English	

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SESSION H: SOFTWARE METHODOLOGIES AND PRACTICES II

	Paper ID.	Title	Authors	Language	Chair
11:30 - 12:00	13	Scrumlity: An Agile Framework Based on Quality Assurance	Claudia Tona, Samantha Jiménez, Reyes Juárez-Ramírez, Rafael González Pacheco López, Ángeles Quezada, César Guerra-García	Spanish	Sodel
12:00 - 12:30	40	Identification of Test Cases Duplication: Systematic Literature Review	Arturo Ivan Romero-Pena, Gerardo Padilla-Zárate, Karen Cortés-Verdín	English	
12:30 - 13:00	55	Essentialization of the RUP Control Changes to Software practice: Making practical the practice	Jairo Arévalo Acosta, Nicolás Barrios Carvajal, Alexander Barón Salazar	Spanish	
13:00 - 13:30	41	Procesamiento de Datasets de proyectos ágiles aplicando la metodología SEMMA para una mejor toma decisiones en la etapa de retrospectiva de Scrum	Oscar Eliut Sandoval-Alfaro, Ricardo Rafael Quintero Meza	Spanish	

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SESSION I: SOFTWARE SYSTEM CONSTRUCTION I

	Paper ID.	TÍTULO	AUTORES	Language	Chair
11:30 - 12:00	37	Microservices Deployment: A Systematic Mapping Study	Victor M. Niño-Martínez, Jorge Octavio Ocharán-Hernández, Xavier Limón, Juan Carlos Pérez-Arriaga	English	Héctor
12:00 - 12:30	15	Application of Recommender System in Standardization	Girish Chandra, Arunabha Mukhopadhyay	English	
12:30 - 13:00	18	Specialized Tool for Editing User Interface Transitions Diagrams (UITD)	Jorge Cervantes-Ojeda, Alan Badillo-Salas, María del Carmen Gómez-Fuentes		
13:00 - 13:30	48	Information visualization in adaptative dashboards for smart cities: A systematic review	Victor Contreras-Figueroa, Luis G. Montané-Jiménez, Teresa Cepero, Edgard Benítez-Guerrero, Carmen	Spanish	
13:30 - 14:00	35	Information Requirements for Ventilation Systems in Underground Mines in Mexico	Alejandro Daniel Sánchez Rodríguez, Maria Susana Avila-Garcia, Juan Carlos Baltazar-Vera	English	

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SESSION J: SOFTWARE SYSTEM CONSTRUCTION II

	Paper ID.	TÍTULO	AUTORES	Language	Chair
11:30 - 12:00	38	Prácticas de los Equipos de Desarrollo de Microservicios: Un mapeo sistemático de la literatura	Alan González-Heredia, Jorge Octavio Ocharán-Hernández, Maria de los Ángeles Arenas-Valdés, Karen Cortés-Verdín	Spanish	Souto
12:00 - 12:30	42	Metodología de testing para migración de datos	Elena Martinera, Mónica Wodzislawski	Spanish	
12:30 - 13:00	26	Análisis comparativo de tiempo de ejecución y sintaxis entre RAW SQL & Eloquent ORM usando el Framework Laravel.	William Carreras, María José Sánchez Hernández, José Juan Hernández Mora, Beatriz Mercedes Carrasco Pérez, Juan Ramos Ramos	Spanish	
13:00 - 13:30	44	Hacia un modelo conceptual de diseño para software de Interfaces Cerebro Computadora	Oscar Hernández López, María del Carmen Mezura Godoy	Spanish	
13:30 - 14:00	49	Diseño de una Interfaz Humano-Computadora para la construcción de procesos robóticos automatizados	Ramiro González Reyes , Luis Gerardo Montané Jiménez , Jean Christian Díaz Preciado , Lorena Alonso Ramírez , Carlos Ochoa Rivera	Spanish	

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