

	Room 1: Data and Information Engineering (DIENG) Track	Room 2: Software Engineering (SWENG) Track	Room 3: Engineering in Data and Software Areas			
Day 1: Session 1	Article/News Analysis	Software Technology	Data and Information Engineering in Practice			
	Information Extraction of Extended Relation in Scientific Papers	Yuliant Sibaroni (School of Electrical Engineering and Informatics, Institut Teknologi Bandung, Indonesia); Dwi H Widyantoro (Institut Teknologi Bandung, Indonesia); Masayu Khodra (Institute Technology of Bandung, Indonesia)	Reverse Engineering of Source Code to Sequence Diagram Using Abstract Syntax Tree	Esa Fauzi (Institut Teknologi Bandung); Bayu Hendradjaya and Wikan Sunindyo (Institut Teknologi Bandung, Indonesia)	The Implementation of Open Data in Indonesia	Dani Gunawan and Amalia Amalia (University of Sumatera Utara, Indonesia)
	Fisheye Zoom and Semantic Zoom on Citation Network Visualization	William Hartono (Bandung Institute of Technology, Indonesia); Dwi H Widyantoro (Institut Teknologi Bandung, Indonesia)	Regex Based Mutation Testing Operator Implementation	Mohamad Tuloli (Institut Teknologi Bandung, Indonesia); Sitohang Benhard (Institute of Technology Bandung, Indonesia); Bayu Hendradjaya (Institut Teknologi Bandung, Indonesia)	Business Intelligence System for Operational Decision Making Support: A Case Study on Lube Distribution	Mashudi Mashudi (PT Pertamina (Persero), Indonesia); Tri Suranto, Irva Dwinovita, Nitya Nugraha and Nur Rachmawati (PT Pertamina, Indonesia)
	A Distance-based Outerlier Detection Method for Rumor Detection Exploiting User Behavioral Differences	Yan Zhang (Nanyang Technology University, Singapore); Weiling Chen, Chai Kiat Yeo, Chiew Tong Lau and Bu Sung Lee (Nanyang Technological University, Singapore)	Business Rule Handling in Relational Database	Rafi Isakh and Tricya E Widagdo (Institut Teknologi Bandung, Indonesia)	Predictive Modeling of the First Year Evaluation Based on Demographics Data (First Sub Model) (Case Study: Students of Telkom University)	Tora Fahrudin (University of Telkom, Indonesia); Joko Buliali and Chastine Fatichah (Institut Teknologi Sepuluh Nopember, Indonesia)
	Sentiment Analysis of Economic News In Bahasa Indonesia Using Majority Vote Classifier	Zamahsyari Zamahsyari (Gadjah Mada University, Indonesia); Arif Nurwidyantoro (Universitas Gadjah Mada, Indonesia)	Dynamic Generic Web Pattern for Multi Platform	Hendra Komara (Institut Teknologi Bandung; Pasundan University, Indonesia)	Enterprise Resource Planning System Continuance Intention at Individual Level: An Approach from Value Perspective	Afrin Rizana and Rajesri Govindaraju (Bandung Institute of Technology, Indonesia)
	Classification of Indonesian News Articles based on Latent Dirichlet Allocation	Retno Kusumaningrum (Diponegoro University, Indonesia); Satriyo Adhy and Muhammad Ihsan Aji Wiedjayanto (Universitas Diponegoro, Indonesia); Suryono Suryono (Diponegoro University, Indonesia)	Virtualization Methods for Securing Online Exam	Alvin Natawiguna and Inggriani Liem (Institut Teknologi Bandung, Indonesia)	Analysis the Relationship of Physiological, Environmental and Milk Productivity of Dairy Cattle using Artificial Intelligence Approaching	Sugiono Sugiono (Brawijaya University; Research Group of Energy and Human Factors, Indonesia); Rudy Soenoko (Brawijaya University, Indonesia)
Focused Crawler for the Acquisition of Health Articles	Amalia Amalia, Dani Gunawan, Atras Najwan and Fathia Meirina (University of Sumatera Utara, Indonesia)	Dynamic Cache Memory Locking by Utilizing Multiple Miss Tables	Andrew Mocniak and Soon M. Chung (Wright State University, USA)	Scenario Development to Improve Crude Palm Oil Production and Farmer's Revenue: a System Dynamics Framework	Lily Puspa Dewi (Petra Christian University, Indonesia); Erma Suryani (ITS, Indonesia)	

	Mining	Software Engineering - Requirements Engineering	Knowledge Engineering			
Day 1: Session 2	Scalable Sequential Pattern Mining for High Dimensional Data Using Spark PrefixSpan	Muhammad Nur Akbar and Putri Saptawati (Bandung Institute of Technology, Indonesia)	A Proposal for Quality Assessment Model for Software Requirements Specification in Indonesian Language for e-Government	Hastie Audytra (Bandung Institute of Technology, Indonesia); Bayu Hendradjaya and Wikan Sunindyo (Institut Teknologi Bandung, Indonesia)	SHACL4P: SHACL Constraints Validation within Protégé Ontology Editor	Fajar Ekaputra and Xiashuo Lin (TU Vienna, Austria)
	Fraud Detection Based-on Data Mining on Indonesian e-Procurement System (SPSE)	Hasan Asy'ari Arief and Putri Saptawati (Bandung Institute of Technology, Indonesia); Yudistira Asnar (Institut Teknologi Bandung, Indonesia)	Identifying Aspects of Web e-Learning in LMS-based for Requirement Engineering Process Modeling	Narti Prihartini, Hira Laksmiwati and Bayu Hendradjaya (Institut Teknologi Bandung, Indonesia)	Review of Ontology Matching with Background Knowledge	Inne Gartina Husein (Institut Teknologi Bandung; Universitas Telkom, Indonesia); Saiful Akbar (Institut Teknologi Bandung, Indonesia); Benhard Sitohang (Bandung Institute of Technology, Indonesia); Fazat Azizah (Institut Teknologi Bandung, Indonesia)
	Classification Based on Constrained Progressive Sequential Pattern Mining: A Proposed Model	Regina Yulia Yasmin (Institut Teknologi Bandung, Indonesia); G. A. Putri Saptawati (Lecturer, Indonesia); Benhard Sitohang (Bandung Institute of Technology, Indonesia)	Requirement Engineering Methodology Development for Open Source ERP Implementation at Small Medium Enterprise	Rajesri Govindaraju (Bandung Institute of Technology, Indonesia)	Framework Based Ontology for Heterogenous Big Data Correlation in Cloud Infrastructure	Tengku Adil Tengku Izhah (Universiti Teknologi MARA, Malaysia)
	Machine Learning to Predict Person's Interest Towards Visual Object Based on EEG Signal	Linda Sekawati (Institut Teknologi Bandung, Indonesia)	Utilization of AHP Method in Elicitation Process for Goal Oriented Implementation using KAOS Modelling	Wendi Wirasta, Hira Laksmiwati and Bayu Hendradjaya (Institut Teknologi Bandung, Indonesia)	Design of Knowledge for Conversational Recommender System Based on Product Functional Requirements	Zk Abdurahman Baizal (Telkom University, Indonesia); Dwi H Widyantoro and Nur Uffa Maulidevi (Institut Teknologi Bandung, Indonesia)
	Hybrid Transformation in Privacy-Preserving Data Mining	Awalia Windarsari Putri (Institut Teknologi Bandung); Hira Laksmiwati (Institut Teknologi Bandung, Indonesia)	Feature Identification of Program Source Code using Regular Expression	Aston Tampubolon, Bayu Hendradjaya and Wikan Sunindyo (Institut Teknologi Bandung, Indonesia)	Diagnosis Comparison in Mapping Repair System	Inne Gartina Husein (Institut Teknologi Bandung; Universitas Telkom, Indonesia); Benhard Sitohang (Bandung Institute of Technology, Indonesia); Saiful Akbar and Fazat Azizah (Institut Teknologi Bandung, Indonesia)
		Test Case Generation Method for Go Language	Edbert Irawan, Bayu Hendradjaya and Wikan Sunindyo (Institut Teknologi Bandung, Indonesia)			

Day 2: Session 3	Unstructured Data Processing 1	Experience Design	Security & privacy
Chinese Chess Character Recognition using Direction Feature Extraction and Backpropagation	Seniman Seniman, Romi Fadillah Rahmat, Dedy Arisandi and William William (University of Sumatera Utara, Indonesia); Erna Budhiarti Nababan (Universitas Sumatera Utara, Indonesia)	Designing Game for Customer Service Training	Restya Astari (Institut Teknologi Bandung, Indonesia)
Image Hiding Optimization Using Ant Colony Optimization Algorithm	Abba Suganda Girsang and Fauzi Pujanandi Utama (Bina Nusantara University, Indonesia)	Deduction of Fighting Game Countermeasures using Neuroevolution of Augmenting Topologies	Teofebano Kristo (Institut Teknologi Bandung, Indonesia)
Image enhancement using morphological contrast enhancement for video based image analysis	I Made Oka Widyantara (Universitas Udayana, Indonesia); Dwi Asana (Udayana University, Indonesia)	The Customer Adoption of Mobile Banking from an Interaction Perspective	Hotna Marina Sitorus (Parahyangan Catholic University, Bandung, Indonesia); Rajesri Govindaraju, Iman Sudirman and Iwan Wiratmadja (Bandung Institute of Technology, Indonesia)
Framework Search Engine Application Text-Based	Asri Maspupah (University of Technique ; ITB, Indonesia); Saiful Akbar (Institut Teknologi Bandung, Indonesia)	User Interaction Analysis to Recommend Suitable Jobs in Career-Oriented Social Networking Sites	Shibbir Ahmed (Bangladesh University of Engineering and Technology, Bangladesh); Mahamudul Hasan (University of Dhaka, Bangladesh); Md. Nazmul Hoq (Bangladesh University of Engineering and Technology, Bangladesh); Muhammad Abdullah Adnan (University of California, San Diego, USA)
Automatic Rhetorical Sentence Categorization on Indonesian Meeting Minutes	Ghoziyah Haitan Rachman and Masayu Leylia Khodra (Institut Teknologi Bandung, Indonesia)		Simple yet Assured Tree Encryption (SATE)
Indonesian Shift-Reduce Constituent Parser	Mario Filino and Ayu Purwarianti (Bandung Institute of Technology, Indonesia)		SCAC-MAT: Stream Cipher Algorithm with Ikeda Map Trajectories
			Andre Susanto and Munawar Abidin (Institut Teknologi Bandung, Indonesia)
			Kalpin Erlangga Silaen (Swiss German University, Indonesia); Charles Lim (Swiss German University ; Universitas Indonesia, Indonesia)
			Khoirunnisa Afifah and Riza Satria Perdana (Institut Teknologi Bandung, Indonesia)
			Alifa Putri, Yudistira Asnar and Saiful Akbar (Institut Teknologi Bandung, Indonesia)
			Andre Susanto (Institut Teknologi Bandung, Indonesia)

Day 2: Session 4	Unstructured Data Processing 2	SWENG-Design&Quality	Spatial Analysis
Opinion Extracting and Classification from Questionnaire Comments Using HMM-POS Tagger and Machine Learning Techniques	Amir Hamzah (Institut Sains ; Teknologi AKPRIND Yogyakarta, Indonesia); Naniek Widyastuti (Institute of Science and Technology AKPRIND, Indonesia)	Empirical study on the Impact of Social Commerce Website Design Principles on Customer Purchase Decision	Cadelina Cassandra (Binus University, Indonesia); Togar Napitupulu (Bina Nusantara University, Indonesia)
Clustering Technique for Information Requirement Prioritization in Specific CMSs	Novi Setiani (Universitas Islam Indonesia, Indonesia)	Evaluation of Software Design Pattern on Mobile Application Based Service Development Related to the Value of Maintainability and Modularity	Billy Susanto (Maranatha Christian University, Indonesia); Sukrisno Mardiyanto and Bayu Hendradjaya (Institut Teknologi Bandung, Indonesia)
Full-Text Search on Data with Access Control using Generalized Suffix Tree	Ahmad Zaky (Institut Teknologi Bandung, Indonesia); Rinaldi Munir (Bandung Institute of Technology, Indonesia)	Software Quality Model for Internet of Things Governance	Johan Tambotih (Doctor of Computer Science Program Bina Nusantara University ; Information Technology Faculty Satya Wacana Christian University, Indonesia); Sani M. Isa, Ford Gaol and Benfano Soewito (Bina Nusantara University, Indonesia); Harco Leslie Hendric Spits Warnars (Bina Nusantara University ; Doctor of Computer Science, Indonesia)
Deep Learning and Distributional Semantic Model for Indonesian Tweet Categorization	Yanfa Putra (Institute Technology of Bandung, Indonesia); Masayu Leylia Khodra (Institut Teknologi Bandung, Indonesia)	Determining Software Versioning Quality Parameters	Rickard Elsen, Inggriani Liem and Saiful Akbar (Institut Teknologi Bandung, Indonesia)
Indonesian Essay Grading System Using Natural Language Processing	Try Ajitono (Bandung Institute of Technology, Indonesia); Yani Widyani (Institut Teknologi Bandung, Indonesia)	Reliable Coordination Patterns in Cyber-Physical-Social Systems	Muhammad Zuhri Catur Candra (Institut Teknologi Bandung, Indonesia); Hong-Linh Truong (TU Wien, Austria)
Handling Out of Vocabulary in Supervised Event Extraction on Indonesian Tweets using Word Representation, Word List, Word Context and Document Level Features	Fawwaz Muhammad (Institut Teknologi Bandung, Indonesia); Ayu Purwarianti (Bandung Institute of Technology, Indonesia)		
			Elia Bangun, Hira Laksmiwati and Eliya Bangun (Institut Teknologi Bandung, Indonesia)
			Discovering Frequent Origin-Destination Flow from Taxi GPS Data
			Rieznan Fanhas and Putri Saptawati (Bandung Institute of Technology, Indonesia)
			Visualization Model of Moving Simple Region
			Elia Bangun, Hira Laksmiwati and Yani Widyani (Institut Teknologi Bandung, Indonesia)
			Landslides Susceptibility Mapping Using Fuzzy Logic: A Case Study in Ponorogo, East Java, Indonesia
			Arif Basofi (Politeknik Elektronika Negeri Surabaya, Indonesia); Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Rizki Dzulkarnain (Politeknik Elektronika Negeri Surabaya, Indonesia)