



The 12th International Conference on Ambient Systems, Networks and Technologies
(ANT 2021)

Preface

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We warmly welcome you to Warsaw, Poland and to the 11th International Conference on Ambient Systems, Networks and Technologies (ANT 2021). With the help and support of the technical committees, we have put together an exciting technical program for this years' ANT conference. We hope you will enjoy the program and have fruitful interactions and discussions with all researchers and practitioners gathering here from around the world.

Ambient systems, networks and technologies are of critical importance to the modern-day life, including businesses, government, education, science and economy. ANT 2021 provides a forum for researchers and practitioners from multi-disciplines in order to address recent research issues and to present and discuss the ideas, theories, technologies, systems, tools, applications, work in progress and experiences on all theoretical and practical issues related to the ambient systems paradigm, infrastructures, models, and technologies.

ANT 2021 received 212 papers from the authors representing many continents and countries. The papers were submitted to different tracks wherein each track has a separate technical program committee. The expert reviewers for each track reviewed each paper and obtained two to six reviews per paper. Based on these reviews, we accepted 68 papers making an acceptance rate of 32%.

We express our sincere thanks to the general chairs Prof. Atta Badii, and Prof. Albert Zomaya, and program chairs Prof. Hossam Hassanein and Prof. Ansar Yasar for their valuable support. We are also indebted to the steering committee chair and ANT founder Prof. Elhadi Shakshuki for his unlimited help and support. We also wish to convey our sincere thanks to all workshops' organizers and our keynote speakers.

We are very grateful to the workshops chair, program vice chairs, international journals chair, publicity chairs and members of the technical program committee. They showed great support and provided us with extensive reviews and constructive criticism of the research papers. Many thanks also go to all the authors who have submitted their research work to the conference. Without their contributions we would have not been able to put together such a strong and interesting technical program.

We look forward to hearing productive and interesting discussions during the ANT 2021 conference. We wish you a pleasant stay and an enjoyable time in Warsaw, Poland!

ANT 2021 Workshops

Workshop Name	Organizers
<u>ABMTRANS</u> <i>The 10th International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications</i>	- Ansar Yasar, IMOB-Hasselt University, Belgium - Luk Knapen, IMOB-Hasselt University, Belgium
<u>AMDE</u> <i>The 2nd International Workshop on the Advancements Model Driven Engineering</i>	- Yassine Rhazali, ESTM, UMI, Morocco
<u>ANTIFRAGILE</u> <i>The 8th International Workshop on Computational Antifragility and Antifragile Engineering</i>	- Vincenzo De Florio - Global Brain Institute
<u>BBDI</u> <i>The 3rd International workshop on Big Data and Business Intelligence</i>	- Yousef FARHAOUI , FST-UMI, Errachidia, Morocco
<u>FAMS</u> <i>The 11th International Symposium on Frontiers in Ambient and Mobile Systems</i>	- Elhadi Shakshuki, Acadia University, Canada
<u>IoT-T&A</u> <i>The 4th International Workshop on Recent Advances on Internet of Things: Technology and Application Approaches</i>	- Nishant Doshi, Pandit Deendayal Petroleum University, Gandhinagar, India - Chintan Patel, Pandit Deendayal Petroleum University, Gandhinagar, India
<u>IUPT</u> <i>The 11th International Symposium on Internet of Ubiquitous and Pervasive Things</i>	- Suparna De, University of Winchester, UK
<u>IWSMAI</u> <i>The 2nd International Workshop on Statistical Methods and Artificial Intelligence</i>	- Abdallah Abarda, FSJES Settat, Morocco - Mohamed Dakkon, FSJES, UAE, Tetouan, Morocco
<u>WSDM</u> <i>The 3rd International Workshop on Web Search and Data Mining</i>	- Mohammed Erritali, Beni Mellal, University Sultane Moulay Slimane, Morocco - Badr Hssina, University HASSAN 2, Morocco

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Table of Contents

Preface	
Elhadi Shakshuki, and Ansar-UI-Haque Yasar	1
Preface	
Haroon Malik, and Ansar-UI-Haque Yasar	5
Keynote I	
Danny Hughes	7
The 12th International Conference on Ambient Systems, Networks and Technologies.	9
Delivery drone route planning over a battery swapping network	
Taner Cokyasar.	10
Comparison of parameters of ring and LC-tank digitally controlled oscillators in 0.13 μm CMOS	
Marijan Jurgo, Vytautas Mačaitis, Karolis Kiela, and Romualdas Navickas.	17
Distributed-Reasoning for Task Scheduling through Distributed Internet of Things Controller	
Ramin Firouzi, Rahim Rahmani, and Theo Kanter	24
A Hybrid Agent-Based Simulation and Optimization Approach for Statewide Truck Parking Capacity Expansion	
Sharif Mahmud, Amin Asadi, Annabelle R. LaCrue, Taslima Akter, Sarah Hernandez, and Sarah Nurre Pinkley	33
Task Scheduling in Cloud Using Deep Reinforcement Learning	
Shashank Swarup, Elhadi M. Shakshuki, and Ansar Yasar	42
The Efficiency of Learning Methodology for Privacy Protection in Context-aware Environment during the COVID-19 Pandemic	
Ranya Alawadhi, and Tahani Hussain	52
From Raw Pedestrian Trajectories to Semantic Graph Structured Model—Towards an end-to-end spatiotemporal analytics framework	
Lamia Karim, Azedine Boulmakoul, and Karine Zeitouni	60
Vehicle-Pedestrian Interaction: Distributed intelligence framework	
Azedine Boulmakoul, Lamia Karim, and Ahmed Lbath	68
The Turning Movement Estimation in Real Time (TMERT) Model: Lower Bound Constraint Calibration	
Jelena Karapetrovic, and Peter T. Martin.	76
Imputation of Missing Traffic Flow Data Using Denoising Autoencoders	
Boyuan Jiang, Muhammad Danial Siddiqi, Reza Asadi, and Amelia Regan.	84
Human-computer interaction in foreign language learning applications: Applied linguistics viewpoint of mobile learning	
Marcel Pikhart	92

pyEDA: An Open-Source Python Toolkit for Pre-processing and Feature Extraction of Electrodermal Activity Seyed Amir Hossein Aqajari, Emad Kasaeyan Naeini, Milad Asgari Mehrabadi, Sina Labbaf, Nikil Dutt, and Amir M. Rahmani	99
Hyperparameter Tuning to Optimize Implementations of Denoising Autoencoders for Imputation of Missing Spatio-temporal Data Muhammad Danial Siddiqi, Boyuan Jiang, Reza Asadi, and Amelia Regan.	107
Incorporating Passenger Load in Public Transport Systems and its Implementation in Nationwide Models Jens Hellekes, and Christian Winkler.	115
Address-based computation of intra-cell distances for travel demand models Matthias Heinrichs, Rita Cyganski, and Daniel Krajzewicz	123
Configuration and Governance of Dynamic Secure SDN Mohammed Alabbad, and Ridha Khedri	131
Lightweight Photoplethysmography Quality Assessment for Real-time IoT-based Health Monitoring using Unsupervised Anomaly Detection Aysan Mahmoudzadeh, Iman Azimi, Amir M. Rahmani, and Pasi Liljeberg	140
The Impact of Arabic Part of Speech Tagging on Sentiment Analysis: A New Corpus and Deep Learning Approach Abdul Munem Nerabie, Manar AlKhatib, Sujith Samuel Mathew, May El Barachi, and Farhad Oroumchian	148
Conceptual design of a trust model for perceptual sensor data of autonomous vehicles Lauri Halla-aho, Ethiopia Nigussie, and Jouni Isoaho.	156
Agent-based simulation from anonymized data: An application to Lille metropolis Azize Oumar Diallo, Arnaud Doniec, Guillaume Lozenguez, and René Mandiau	164
Pre-calibration of a Discrete Choice Model and Evaluation of Cycling Mobility for Île-de-France Guoxi Feng, Maxime Jean, Alexandre Chasse, and Sebastian Hörl	172
Integrating Urban Last-Mile Package Deliveries into an Agent-Based Travel Demand Model Anna Reiffer, Jelle Kübler, Lars Briem, Martin Kagerbauer, and Peter Vortisch	178
Validation of a Predictive Fire Risk Indication Model using Cloud-based Weather Data Services S. Stokkenes, R.D. Strand, L.M. Kristensen, and T. Log.	186
Fog-cloud assisted framework for Heterogeneous Internet of Healthcare Things Rashmi Chudhary, and Shivani Sharma.	194
Modeling intermodal travel behavior in an agent-based travel demand model Tim Wörle, Lars Briem, Michael Heilig, Martin Kagerbauer, and Peter Vortisch.	202
The Impact of a New Public Transport Line on Parking behavior Elisabeth S. Fokker, Thomas Koch, and Elenka R. Dugundji	210
A smart dynamic crowd evacuation system for exhibition centers Faouzi Kamoun, May El Barachi, Fatna Belqasmi, and Abderrazak Hachani	218
Using Barcode to Track Student Attendance and Assets in Higher Education Institutions Salah Elaskari, Muhammad Imran, Abdurrazag Elaskri, and Abdullah Almasoudi	226
Does Pedestrian Penalty Affect Pedestrian Behavior? A Case of State of Qatar Deepti Muley, Mohamed Kharbeche, Omar Ghonim, Ahmed Madkooor, and Yousef Mohamed	234
A GRNN-based Approach towards Prediction from Small Datasets in Medical Application Ivan Izonin, Roman Tkachenko, Michal Gregus ml., Khrystyna Zub, and Pavlo Tkachenko	242

Analysis of gap parameters for the estimation of single lane roundabouts' capacity in the State of Qatar Abdulkarim Almkdad, Mustafa Almallah, Qinaat Hussain, Wael K.M. Alhajyaseen, Naeem Albeitjali, and Mohammed Alqaradawy	250
STS-EPR: Modelling individual mobility considering the spatial, temporal, and social dimensions together Giuliano Cornacchia, and Luca Pappalardo	258
Understanding Dynamics of Initial Trust and its Antecedents in Password Managers Adoption Intention among Young Adults Ali Farooq, Alina Dubinina, Seppo Virtanen, and Jouni Isoaho	266
CLONE: Collaborative Ontology Editor as a Service in the Cloud Alexandros Preventis, and Euripides G.M. Petrakis	275
Forecasting Public Transport Ridership: Management of Information Systems using CNN and LSTM Architectures Sergey Khalil, Chintan Amrit, Thomas Koch, and Elenna Dugundji	283
PPG-KeyGen: Using Photoplethysmogram for Key Generation in Wearable Devices Sanaz Rahimi Moosavi	291
Connecting the Twins: A Review on Digital Twin Technology & its Networking Requirements Maggie Mashaly	299
Quranic Education and Technology: Reinforcement learning System for Non-Native Arabic Children Bayan M. Alsharbi, Omar Mubin, and Mauricio Novoa	306
KAPPA as Drift Detector in Data Stream Mining Osama A. Mahdi, Eric Pardede, and Nawfal Ali	314
Task Offloading Scheduling in Mobile Edge Computing Networks Zhonglun Wang, Peifeng Li, Shuai Shen, and Kun Yang	322
Ambient access control for smart spaces: dynamic guidance and zone configuration Seán Óg Murphy, Liam O'Toole, Luis Quesada, Kenneth N. Brown, and Cormac J. Sreenan.	330
Bicycle Parking in Station Areas in the Netherlands Jullian van Kampen, Luk Knapen, Eric Pauwels, Rob van der Mei, and Elenna R. Dugundji	338
Analysis of information quality for a usable information system in agriculture domain: a study in the Sri Lankan context R.S.I. Wilson, J.S. Goonetillake, Athula Ginige, and W.A. Indika	346
An Optimal Learning Model for Training Expert System to Detect Uterine Cancer Tanjim Mahmud, Juel Sikder, Umme Salma, Sultana Rokeya Naher, Jannat Fardoush, Nahed Sharmen, and Sajib Tripura	356
GeoAKOM: A Smart Geocasting Protocol for Vehicular Networks Ezgi Tetik Saglam, Yusuf Yaslan, and Sema F. Oktug	364
Sensitivity analysis on a dynamic coupling model for V2V communication distance control Darko Frtunik, Amolika Sinha, Hanna Grzybowska, Navreet Viridi, S. Travis Waller, and Vinayak Dixit	372
Predicting Lessee Switch Behavior using Logit Models Jan-Willem Feilzer, Daan Stroosnier, Elenna Dugundji, and Thomas Koch	380
Regionalization for urban air mobility application with analyses of 3D urban space and geodemography in San Francisco and New York Namwoo Kim, and Yoonjin Yoon	388
L-PECS: Application for Inclusive Work Environments Paulina Lagos, Rubén Baeza, Oscar Pinto, Giannina Costa, David Ruete, Diego Fuentealba, and Gustavo Gatica	396

Towards a Digital Twin model for Building Energy Management: Case of Morocco Abdelali Agouzoul, Mohamed Tabaa, Badr Chegari, Emmanuel Simeu, Abbas Dandache, and Karim Alami.	404
Investigating the Acceptance of Flipped Classroom and Suggested Recommendations Salam Hoshang, Tariq Abu Hilal, and Hasan Abu Hilal	411
Federated Learning for Distributed Reasoning on Edge Computing Ramin Firouzi, Rahim Rahmani, and Theo Kanter	419
An Activity Based integrated approach to model impacts of parking, hubs and new mobility concepts Luk Knapen, Muhammad Adnan, Bruno Kochan, Tom Bellemans, Marieke van der Tuin, Han Zhou, and Maaïke Snelder.	428
Development of an object recognition algorithm based on neural networks With using a hierarchical classifier V.T. Nguyen, and F.F. Pashchenko	438
A Review of Access Control Metamodels Nadine Kashmar, Mehdi Adda, Mirna Atieh, and Hussein Ibrahim	445
Parameters Influencing Lane Flow Distribution on Multilane Freeways in PTV Vissim Claude Marie Weyland, Marvin V. Baumann, H. Sebastian Buck, and Peter Vortisch	453
Long Short-Term Memory Approach for Routing Optimization in Cloud ACKnowledgement Scheme for Node Network Siddardha Kaja, Elhadi M. Shakshuki, and Ansar Yasar	461
A reactive system for pedestrian mobility simulation Mohamed Nahri, Azedine Boulmakoul, Lamia Karim, and Ahmed Lbath	469
Development of a decision support tool for sustainable urban logistics optimization Paul-Eric Dossou, and Axel Vermersch	476
Synthesizing the Evolution of Multimodal Transportation Planning milestones in Indian Cities Nandan H Dawda, Gaurang J Joshi, and Shriniwas S Arkatkar.	484
Limitations of Recursive Logit for Inverse Reinforcement Learning of Bicycle Route Choice Behavior in Amsterdam Thomas Koch, and Elenna Dugundji	492
Analysis of the needs of small towns and municipalities in the field of SMART services Peter Balco, Dorota Košecká, and Peter Bajžik.	500
Urban Crowd-Logistics - Monetary compensation and willingness to work as occasional driver Felix Neudoerfer, Andreas Mladenow, and Christine Strauss	508
A Hybrid Data-driven Model for Intrusion Detection in VANET Hind Bangui, Mouzhi Ge, and Barbora Buhnova	516
SafeMobility: An IoT- based System for safer mobility using machine learning in the age of COVID-19 Diana Yacchirema, and Arturo Chura	524
Applying transfer learning and various ANN architectures to predict transportation mode choice in Amsterdam Ruurd Buijs, Thomas Koch, and Elenna Dugundji	532
Envisioning Model-Based Performance Engineering Frameworks Davide Arcelli	541
Assessment of the Traffic Enforcement Strategies Impact on Emission Reduction and Air Quality Youssef El-Hansali, Siham Farrag, Ansar Yasar, Haroon Malik, Elhadi Shakshuki, and Khalid Al-Abri	549
The 4th International Conference on Emerging Data and Industry 4.0	557

Using Deep Learning Model for Adapting and Managing COVID-19 Pandemic Crisis Mohammad Alodat	558
A micro-service-based machinery monitoring solution toward realizing the Industry 4.0 vision in a real environment Athanasios Naskos, Nikodimos Nikolaidis, Vasileios Naskos, Anastasios Gounaris, Daniel Caljouw, and Cosmas Vamvalisa	565
Crafting Adversarial Samples for Anomaly Detectors in Industrial Control Systems Ángel Luis Perales Gómez, Lorenzo Fernández Maimó, Alberto Huertas Celdrán, Félix J. García Clemente, and Frances Cleary	573
Object Detection for Smart Factory Processes by Machine Learning Lukas Malburg, Manfred-Peter Rieder, Ronny Seiger, Patrick Klein, and Ralph Bergmann	581
Towards Data-Driven Reliability Modeling for Cyber-Physical Production Systems Jonas Friederich, and Sanja Lazarova-Molnar	589
Requirements towards optimizing analytics in industrial processes Alexander Zeiser, Bas van Stein, and Thomas Bäck	597
Input Doubling Method based on SVR with RBF kernel in Clinical Practice: Focus on Small Data Ivan Izonin, Roman Tkachenko, Michal Gregus, Khrystyna Zub, and Nataliia Lotoshynska	606
Exploring Distance Based Approaches for Reducing Sensor Data in Defect Related Prognosis Selvine G. Mathias, Daniel Grossmann, and Tapanta Bhanja	614
A Comparative Study on Fuzzy Clustering for Cloud Computing. Taking Web Service as a case Choukri Djellali, Mehdi adda, and Mohamed Tarik Moutacalli	622
Workshops 2021	628
Explorative analysis of potential MaaS customers: an agent-based scenario Carolina Cisterna, Giulio Giorgione, and Francesco Viti	629
Hermes: Enabling efficient large-scale simulation in MATSim Dan Graur, Rodrigo Bruno, Joschka Bischoff, Marcel Rieser, Wolfgang Scherr, Torsten Hoeffler, and Gustavo Alonso	635
Modeling Crossroads in MATSim: the Case of Traffic-Signaled Intersections Aurore Sallard, and Milos Balac	642
Environmental Equity Analysis in Agent-Based Transport Simulations: A Study on Causation and Exposure Nico Kuehnel, Wei-Chieh Huang, Rolf Moeckel	650
Methodology for Determining Charging Strategies for Freight Traffic Vehicles based on Traffic Simulation Results Ricardo Miranda Jahn, Anne Syré, Alexander Grahle, Kai Martins-Turner, and Dietmar Göhlich	656
Ride-Pooling Efficiency in Large, Medium-Sized and Small Towns -Simulation Assessment in the Munich Metropolitan Region Felix Zwick, Nico Kuehnel, Rolf Moeckel, and Kay W. Axhausen	662
Agent-based simulation to assess the impact of electric vehicles on power networks: Swindon Borough Case Study Maria Silva Pedro, Jeffrey Hardy, and Koen H. van Dam	668
The impact of trip density on the fleet size and pooling rate of ride-hailing services: A simulation study Ihab Kaddoura, and Tilmann Schlenther	674
A Concept Agent-Based Simulation Model to Evaluate the Impacts of a Shared Space Network Panagiotis G. Tzouras, Christos Karolemeas, Efthimios Bakogiannis, and Konstantinos Kepaptoglou	680

Sensitivity of the urban transport system to the value of travel time savings for shared autonomous vehicles: A simulation study Benoit Lécureux, and Ihab Kaddoura	686
Quantifying Health & Economic Benefits of Bicycle Superhighway: Evidence from Patna Amit Agarwal	692
Towards a more realistic simulation of public transit: Generating transit schedules with vehicle circulations Gero L. Marburger, and Ihab Kaddoura	698
Integrating discrete choice models with MATSim scoring Sebastian Hörl	704
Introducing the eqasim pipeline: From raw data to agent-based transport simulation Sebastian Hörl, and Milos Balac	712
A data-driven approach to run agent-based multi-modal traffic simulations on heterogeneous CPU-GPU hardware Aleksandr Saprykin, Ndaona Chokani, and Reza S. Abhari	720
Open-Source Web-Based Visualizer for Dynamic-Response Shared Taxi Simulations William Charlton, Gregor Leich, and Ihab Kaddoura	728
Behavioural sensitivity towards emission concepts Ruan J. Gräbe, and Johan W. Joubert	734
A South African scenario for emissions modelling Johan W. Joubert, and Ruan J. Gräbe	739
Automated generation of traffic signals and lanes for MATSim based on OpenStreetMap Theresa Ziemke, and Söhnke Braun	745
Expanding the analysis scope of a MATSim transport simulation by integrating the FEATHERS activity-based demand model Dominik Ziemke, Luk Knapen, and Kai Nagel	753
Applying an MDA-based approach for enhancing the validation of business process models Nemury Silega, and Manuel Noguera	761
Transformation of Struts Model to Codeigniter Model Amine Moutaouakkil, and Samir Mbarki	767
Model-based Testing and Monitoring using AgileUML Kevin Lano, Kunxiang Jin, and Shefali Tyagi	773
Metamodel based approach to generate user interface mockup from UML class diagram Mahatody Thomas, Ilie Mihaela, Rapatsalahy Miary Andrianjaka, Dimbisoa William Germain, and Ilie Sorin	779
Ethereum's Smart Contracts Construction and Development using Model Driven Engineering Technologies: a Review Yassine Ait Hsain, Naziha Laaz, and Samir Mbarki	785
Automatic generation of Web service for the Praxeme software aspect from the ReLEL requirements model Rapatsalahy Miary Andrianjaka, Razafimahatratra Hajarisena, Ilie Mihaela, Mahatody Thomas, Ilie Sorin, and Razafindrakoto Nicolas Raft	791
Towards an automatic model-based Scrum Methodology Salima Chantit, and Imane ESSEBAA	797
Apache Hadoop-MapReduce on YARN framework latency Abdelaziz EL YAZIDI, Mohamed Saad AZIZI, Yassine BENLACHMI, and Moulay Lahcen HASNAOUI	803

The Philosophy of Residuality Theory Barry M O'Reilly	809
Artificial intelligence hybrid models for improving forecasting accuracy Nisrine Zougagh, Abdelkabir Charkaoui, and Abdelwahed Echchatbi	817
A Graphical Conceptual Model for Conventional and Time-varying JSON Data Zouhaier Brahmia, Fabio Grandi, Safa Brahmia, and Rafik Bouaziz	823
Using Machine Learning to Predict Outcomes of Accident Cases in Moroccan Courts Haidar Aissa, Ahajjam Tarik, Imad Zeroual, and Farhaoui Yousef	829
Artificial Intelligence and Machine Learning to Predict Student Performance during the COVID-19 Ahajjam Tarik, Haidar Aissa, and Farhaoui Yousef	835
ReDroidDet: Android Malware Detection Based on Recurrent Neural Network Mothanna Almahmoud, Dalia Alzu'bi, and Qussai Yaseen	841
Android Malware Detection Using Deep Learning Omar N. Elayan, and Ahmad M. Mustafa	847
Spam Email Detection Using Deep Learning Techniques Isra'a AbdulNabiff, and Qussai Yaseen	853
Evaluating Impact of Mobile Applications on EFL University Learners' Vocabulary Learning – A Review Study Blanka Klimova	859
Application of the basic principles of "Industry 4.0" in the intellectualization of automated control systems of modern thermal power plants E.K. Arakelyan, A.A. Kosoy, S.V. Mezin, and F.F. Pashchenko.....	865
A Novel Frame-Slotted ALOHA Algorithm for Radio Frequency Identification System in Supply Chain Management Kamalendu Pal	871
Recent Advances in Machine-Learning Driven Intrusion Detection in Transportation: Survey Hind Bangui, and Barbora Buhnova	877
Access Control Metamodel for Policy Specification and Enforcement: From Conception to Formalization Nadine Kashmar, Mehdi Adda, Mirna Atieh, and Hussein Ibrahim	887
Steps towards an Healthcare Information Model based on openEHR Daniela Oliveira, Rui Miranda, Francini Hak, Nuno Abreu, Pedro Leuschner, António Abelha, and José Machado	893
Health Professional's Decision-Making Based on Multichannel Interaction Services Ailton Moreira, Rui Miranda, and Manuel Filipe Santos	899
Adaptive Business Intelligence platform and its contribution as a support in the evolution of Hospital 4.0 João Lopes, João Braga, and Manuel Filipe Santos	905
mHealth: Monitoring Platform for Diabetes Patients Ana Luísa Sousa, João Lopes, Tiago Guimarães, and Manuel Filipe Santos	911
Development of FHIR based web applications for appointment management in healthcare António Chaves, Tiago Guimarães, Júlio Duarte, Hugo Peixoto, António Abelha, and José Machado ...	917
Architecture for Intensive Care Data Processing and Visualization in Real-time Ricardo Cruz, Tiago Guimarães, Hugo Peixoto, and Manuel Filipe Santos	923
6MID:Mircochain based Intrusion Detection for 6LoWPAN based IoT networks Himanshu B. Patel, and Devesh C. Jinwala	929

To Ameliorate Classification Accuracy using Ensemble Distributed Decision Tree (DDT) Vote Approach: An Empirical discourse of Geographical Data Mining Sheikh Amir Fayaz, Majid Zaman, and Muheet Ahmed Butt	935
Skill mismatch evidence for Cybersecurity skills in Morocco Ibtissam Makdoun, Ibrahim Rahhal, Ghita Mezzour, Ismail Kassou, and Kathleen M Carley.	941
Designing WiMAX Static Environment using Local Automata based Autonomic Network Architecture for Wireless Sensor Networks Sanjay K N, Shaila K, and Venugopal K R	947
An Automated Post-Mortem Analysis of Vulnerability Relationships using Natural Language Word Embeddings Benjamin S. Meyers, and Andrew Meneely.	953
Towards Explainable CNNs for Android Malware Detection Martin Kinkead, Stuart Millar, Niall McLaughlin, and Philip O’Kane.	959
Quantitative Weighting Approach for Non-TI Clustering Sanjit Kumar Saha, and Ingo Schmitt	966