



### **Call for Participation**

We invite you to join us in Zurich, Switzerland on November 23 ~ 24, 2019 for 11<sup>th</sup> International Conference on Networks & Communications (NeTCoM 2019)

The Conference is a forum for presenting new advances and research results in the fields of Computer Networks, Network Protocols and Wireless Networks, Data Communication Technologies and Network Security.

### **Highlights of NeTCoM 2019 include:**

- Invited talk from eminent Professors
- Submission of 300 papers from North America to Australia and selection of only Quality papers
- 6<sup>th</sup> International Conference on Computer Science, Engineering and Information Technology (CSEIT-2019)
- 11<sup>th</sup> International Conference on Network and Communications Security (NCS-2019)
- 6<sup>th</sup> International Conference on Signal, Image Processing and Multimedia (SPM-2019)
- 11<sup>th</sup> International Conference on Wireless & Mobile Networks (WiMoNe-2019)
- 11<sup>th</sup> International Conference on Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks (GRAPH-HOC-2019)
- International Conference on Internet of Things (CIoT 2019)
- International Conference on Machine Learning & Applications (CMLA 2019)

### **Registration Participants**

Non-Author / Co-Author/ Simple Participants (no paper)

**390 EURO (With proceedings)**

Here's where you can reach us: [netcom@cseit2019.org](mailto:netcom@cseit2019.org) (or) [netcomconference@yahoo.com](mailto:netcomconference@yahoo.com)

### **Accepted Papers**

#### **A Hybrid Model for Evacuation Simulation and Efficiency Optimization in Large Complex Buildings**

Hao Yuan, Guo Yu, Yifan Ma, Jieneng Chen, Xiongda Chen, Tongji University, China

#### **Quality Model to the Adaptive Guidance**

Hamid Khemissa<sup>1</sup> and Mourad Oussala<sup>2</sup>, <sup>1</sup>Computer Systems Laboratory, Faculty of Electronics and Informatics, Computer Science Institute, USTHB: University of Science

and Technology Houari Boumediene, Algiers; Algeria and <sup>2</sup>Laboratoire des Sciences du Numérique de Nantes (LS2N), Faculty of sciences, Nantes University, France

### **Collaborative and Fast Decryption Using Fog Computing and A Hidden Access Policy**

Ahmed Saidi<sup>1</sup>, Omar Nouali<sup>2</sup> And Abdelouahab Amira<sup>3, 1, 2, 3</sup>Department Of Computer Security, Research Center For Scientific And Technical Information, Algiers, Algeria and <sup>1,3</sup>Faculty Of Exact Sciences, Universite De Bejaia, 06000 Bejaia, Algeria

### **Upgrading Cloud Infrastructure – Challenges and Solutions**

Andrei Petrescu and Mihai Carabas, University POLITEHNICA of Bucharest, Splaiul Independentei 313, Bucharest, Romania

### **Semantic Document Classification based on Strategies of Semantic Similarity Computation and Correlation Analysis**

Shuo Yang<sup>1</sup>, Ran Wei<sup>2</sup>, Hengliang Tan<sup>1</sup> and Jiao Du<sup>1</sup>, <sup>1</sup>School of Computer Science and Cyber Engineering Guangzhou University, Guangzhou, China and <sup>2</sup>Department of Computer Science University of California, Irvine, California, USA

### **Automated Generation of Computer Graded Unit Testing-Based Programming Assessments for Education**

Sébastien Combéfis<sup>1,2</sup> and Guillaume de Moffarts<sup>2</sup>, <sup>1</sup>ECAM Brussels Engineering School, Brussels, Belgium and <sup>2</sup>Computer Science and IT in Education ASBL, Louvain-la-Neuve, Belgium

### **SFERANET: Automatic Generation of Football Highlights**

Vincenzo Scotti, Licia Sbattella and Roberto Tedesco, DEIB, Politecnico di Milano, Milano, Italy

### **Automation Regression Testing for SAS.AM Website**

Harutyun Berberyan and Shahid Ali, Department of Information Technology, AGI Institute, Auckland, New Zealand

### **Secure and Privacy-aware Data Collection Architecture Approach in Fog Node Based Distributed IoT Environment**

Moussa WITTI and Prof. Dimitri KONSTANTAS, Information Science Institute University of Geneva Route de Drize 7, 1227 Carouge, Switzerland

### **An Intelligent Mobile Application to Manage College Database and Recommendation Using Data Mining**

Yixian Qi<sup>1</sup>, Qi Lu<sup>2</sup>, Yu Su<sup>3</sup> and Fangyan Zhang<sup>4</sup>, <sup>1</sup>Valencia High School, Placentia, CA 92870, <sup>2</sup>Department of Social Science, University of California, Irvine, Irvine, CA, 92697, <sup>3</sup>Department of Computer Science, California State Polytechnic University, Pomona, CA, 91768 and <sup>4</sup>ASML, San Jose, CA, 95131

### **TRIT: A Robust Tracker Based on Triplet Network**

Peng Zou and Yunfei Cai, Department of Intelligent Science and Technology, Nanjing University of Science and Technology, Nanjing, China

### **Customized Garment Fashion Recommendation System Using Data Mining Techniques**

Shukla Sharma<sup>1,2,3</sup>, Ludovic Koeh<sup>1,2</sup>, Pascal Bruniaux<sup>1,2</sup>, Xianyi Zeng<sup>1,2</sup>, <sup>1</sup>Gemtex, <sup>2</sup>Ensait, <sup>3</sup>Ecole Centrale De Lille Lille, France

### **Abstractive text summarization using Transformer based deep learning**

SXin Liu, Computer science and Technology, Beijing University of Posts and Telecommunications, Beijing, China

### **Toward A Framework to Implement A Master Data Management under SOA**

Chafika Benkherourou, Computer Science Department, University of Batna 2, Batna, Algeria.

### **Cognitive Cities an Architectural Framework for the Cities of the Future**

Cristiana Carvalho<sup>1</sup>, Filipe Cabral Pinto<sup>1</sup>, Isabel Borges<sup>1</sup>, Gonçalo Machado<sup>2</sup> and Ilídio Oliveira <sup>1</sup>Altice Labs, Aveiro, Portugal and <sup>2</sup>Departamento de Eletrónica, Telecomunicações e Informática, University of Aveiro, Aveiro, Portugal.

### **Anomaly-based Intrusion Detection for Hyper Large Industrial IoT Networks**

Mohammad Rmayti, Alexis Olivereau and Baptiste Polvé, CEA, LIST, Communicating Systems Lab, 91191 Gif-sur-Yvette CEDEX, France

### **Prediction and Causality Analysis of Churn Using Deep Learning**

Muzaffar Shah, Darshan Adiga, Shabir Bhat and Viveka Vyeth, Datoin Bangalore, India

### **A Novel Machine Learning System for Sentiment Analysis and Extraction**

Osama Mohammad Rababah and Nour Alokaily, Information Technology Department, The University of Jordan, Amman, Jordan

### **Fuzzy logic for E-recruitment**

Abdessamad OUZNINI, Youssef FAKIR, Mohamed FAKIR, Bouzekri MOUSTAID, Department of computer Sciences Faculty of science and Technology, University Sultan Moulay Slimane, Beni Mellal, Morocco

### **A Comparison of Unsupervised Anomaly Detection Methods on a Unified Host and Network Dataset**

Catherine Beazley<sup>1</sup>, Karan Gadiya<sup>1</sup>, Rakesh Ravi<sup>1</sup>, David Roden<sup>1</sup>, Boda Ye<sup>1</sup>, Brendan Abraham<sup>2</sup>, Donald Brown<sup>1</sup>, Malathi Veeraraghavan<sup>3</sup>, <sup>1</sup>Data Science Institute, University of Virginia, Charlottesville, USA, <sup>2</sup>Department of Systems and Information Engineering, University of Virginia, Charlottesville, USA and <sup>3</sup>Department of Electrical and Computer Engineering, University of Virginia, Charlottesville, USA

## **An Artificial Neural Network Approach for the Classification of Human Lower Back Pain**

Shubham Sharma and Rene V. Mayorga, Industrial Systems Engineering, University of Regina, Canada

## **Prediction of Workpiece Quality: An Application of Machine Learning in Manufacturing Industry**

Günther Schuh, Paul Scholz, Sebastian Schorr, Durmus Harman, Matthias Möller, Jörg Heib, Dirk Bähre

## **Automated Music Making with Recurrent Neural Network**

You Peng<sup>1</sup>, Yao Pan<sup>2</sup>, Qi Lu<sup>3</sup>, <sup>1</sup>Department of Computer Science California State Polytechnic University, Pomona, CA, 91768 <sup>2</sup>LinkedIn Corporation Sunnyvale, CA 94085 and <sup>3</sup>Department of Social Science University of California, Irvine, CA, 92697

## **In Hindsight: A Smooth Reward for Steady Exploration**

Hadi Samer Jomaa and Josif Grabocka and Lars Schmidt-Thieme, Information Systems and Machine Learning Lab Universtiry of Hildesheim, Germany

## **Lifetime Extension of Ad Hoc Wireless Network with Shadowing Effects**

Amir J. Majid; Ph.D, College of Engineering, University of Science and Technology of Fujairah, UAE.

## **Measurement and Characterization of the Stationary Noise in Narrowband Power Line Communication**

Raja Alaya and Rabah Attia, Tunisian Polytechnic School, University of Carthage, Tunisia

## **Token Bucket-based Throughput Constraining in Cross-layer Schedulers**

Jeremy Van den Eynde and Chris Blondia, University of Antwerp - imec, IDLab - Department of Mathematics and Computer Science, Sint-Pietersvliet 7, 2000 Antwerp, Belgium

## **SS EMS: A Smart and Secure Framework of Energy Management System**

Jaspreet Kaur and Sumit Kalra, Department of Computer Science & Engineering Indian Institute of Technology Jodhpur Jodhpur, India

## **Methodology to Evaluate WSN Simulators: Focusing on Energy Consumption Awareness**

Michel Bakni<sup>1</sup>, Luis Manuel Moreno Chacon<sup>2</sup>, Yudith Cardinale<sup>2</sup>, Guillaume Terrasson<sup>1</sup>, and Octavian Curea<sup>1</sup>, <sup>1</sup>Univ. Bordeaux, ESTIA Institute of Technology, F-64210 Bidart, France and <sup>2</sup>Universidad Simon Bolivar, Caracas, 1080-A, Venezuela

## **Motion estimation from noisy image sequences using new frequency weighting functions**

El Mehdi Ismaili Alaoui, Laboratory of Computer Networks and Systems Faculty of Sciences, Moulay Ismail University Meknes-Morocco

## **Split Multi-stage Vector Quantization Based Steganography for Secure Wideband Speech Coder**

Merouane BOUZID and Bakkar LASKAR, Electronics Faculty, University of Sciences and Technology Houari Boumediene(USTHB), Algeria

## **Segmentation of Single and Overlapping Leaves by Extracting Appropriate Contours**

Rafflesia khan and Rameswar Debnath, Computer Science and Engineering Discipline, Khulna University, Khulna, Bangladesh

## **Lane Detection for Prototype Autonomous Vehicle**

Sertap Kamçi, Dogukan Aksu and Muhammed Ali Aydin, Computer Engineering Department, Istanbul University-Cerrahpasa, Istanbul, Turkey

## **Nature-inspired Meta-heuristic Optimization Algorithms: Grey Wolf Optimization, Dolphin Swarm Optimization, And Bacterial Foraging Optimization**

Büsra Rümeysa Mete, Dogukan Aksu and Emel Arslan, Computer Engineering Department, Istanbul University-Cerrahpasa, Istanbul, Turkey

## **Design a simple printed antenna with DGS structure for UWB/SWB applications**

Tarek Messatfa, Fouad Chebbara, Abdelkarim Belhedri, and Abderrahim Annou, Department of Electronic and Telecommunications, Electrical Engineering Laboratory (LAGE), University of Kasdi Merbah Ouargla, Ouargla, Algeria

## **A Fair Electronic Voting System Using Blockchain**

ChangHyun Roh and YongWoon Hwang and Im-Yeong Lee, SoonChunHyang University, Asan, Republic of Korea

## **Public-Key Based Authentication Architecture for IoT Devices Using PUF**

Haji Akhundov<sup>1</sup>, Erik van der Sluis<sup>2</sup>, Said Hamdioui<sup>1</sup> and Mottaqiallah Taouil<sup>1</sup>, <sup>1</sup>Delft University of Technology, Delft, The Netherlands and <sup>2</sup>Intrinsic ID B.V., Eindhoven, The Netherlands

## **Securing Digital Signature Algorithm Against Side Channel Attacks**

Mohamed. N. Hassan Ahmed<sup>1</sup>, S. Abo-Taleb<sup>2</sup>, Mohamed Shalaby<sup>3</sup>, <sup>1</sup>University of Calgary, Calgary, Canada, <sup>2</sup>Ain Shams university, Cairo, Egypt and <sup>3</sup>Egyptian Armed Forces, Arab Academy for science Technology and Maritime Transport, Cairo, Egypt

## **Cognizance of data to action techniques for IoT environments**

Pushpinder Kaur Chouhan, Md Israfil Biswas, Naveed Khan, Chris Nugent, and Philip Morrow, Ulster University, Jordanstown, UK

## **Security Framework for IoT Devices Against Cyber-attacks**

Aliya Tabassum and Wadha Lebda, Department of Computer Science and Engineering, Qatar University, Doha, Qatar

## **Layman's Understanding Approach to the Internet of Things (IoT) Concepts and Applications**

Rajeev Kanth<sup>1</sup>, Tuomas Korpi<sup>1</sup>, Arto Toppinen<sup>1</sup>, Kimmo Myllymäki<sup>1</sup>, Jatin Chaudhary<sup>2,3</sup>, Jukka Heikkonen<sup>3</sup>, <sup>1</sup>Savonia University of Applied Sciences, Opistotie 2, 70150 Kuopio, Finland, <sup>2</sup>University of Turku, Vesilinnantie 5, 20520 Turku, Finland and <sup>3</sup>Sardar Vallabhbhai National Institute of Technology, Surat India

## **Hybrid Application Layer Protocol Design for IoT Environments**

Erdal ÖZDOĞAN<sup>1</sup>, and O. Ayhan ERDEM<sup>2</sup>, <sup>1</sup>Department of Information Systems, Gazi University, Ankara, Turkey and <sup>2</sup>Department of Computer Engineering, Gazi University, Ankara, Turkey

**Call for Participation:** <https://youtu.be/qcfMIUZmvg8>