



### **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 Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks (GRAPH-HOC - 2019)

The Conference is a forum for presenting new advances and research results in the fields of Distributed extensions of centralized graph theoretic routing algorithms, Connectivity Analysis under Different Mobility Models, Data Gathering Algorithms and Protocols for Sensor Networks, Applications of Random Graph Theory in Ad Hoc Networks and Sensor Networks.

### **Highlights of GRAPH-HOC - 2019 include:**

- Invited talk from eminent Professors
- Submission of 300 papers from North America to Australia and selection of only Quality papers
- 11<sup>th</sup> International Conference on Networks & Communications (NeTCoM-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)
- 6<sup>th</sup> International Conference on Computer Science, Engineering and Information Technology (CSEIT-2019)
- 11<sup>th</sup> International Conference on Wireless & Mobile Networks (WiMoNe-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: [graphhoc@cseit2019.org](mailto:graphhoc@cseit2019.org) or [graphhocconf@yahoo.com](mailto:graphhocconf@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, Dato in 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 University 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>