

# CALL FOR PAPERS

# COMMCA 2014



International Workshop on Communicating Objects and Machine-to-Machine for Mission-Critical Applications

**August 17-20, 2014, Niagara Falls, Ontario, Canada**

[http:// www.commca.org](http://www.commca.org)

in conjunction with the The 9th International Conference on Future Networks and Communications (FNC 2014)

<http://cs-conferences.acadiau.ca/fnc-14/>

## **SCOPE AND OBJECTIVES**

Machine To Machine (M2M) is the association of Information and Communication Technology (ICT), with objects, making them "smart" and communicating through different access network technologies in order to give them the means to interact without any human intervention with the information system of an organization or an enterprise. The available today network technologies differ from short rang communication such as Zigbee, ultralow-power Bluetooth, UWB, and low-power Wifi to wide area networks such as 3G, Femtocell, and LTE.

M2M communication technology is certainly in its early stage even if we consider recent research advances in a large spectrum of applications in many different areas such as E-health, smart grid, automotive, telemetric, smart homes, environmental monitoring, industrial automation. In addition, it also opens a wide research area for mission-critical applications, which have direct impact on the society and authorities such as border surveillance, security monitoring, military operations, fire emergency response, environment-oriented pollutions and land security, emergency event and crisis intervention, and natural disaster. These mission-critical applications impose their specific and challenging requirements in terms of power, bandwidth, latency, reliability, accuracy, security, and mobility. Such challenges can cause problems on almost all layers of M2M networks.

This workshop aims to gather researchers, engineers and practitioners, both from academia and industry, as well as end users, to present and debate recent M2M communication systems, technologies, and applications applied to mission-critical scenarios.

The central theme of COMMCA 2014 will be the exploitation of available wireless and mobile technologies which are capable of being used in object to object, machine to machine communications for mission-critical applications. Topics of interest include but not limited to the following:

- Novel M2M architectures, protocols and applications for mission-critical applications
- M2M Medium Access Control Protocols for mission-critical applications
- M2M mobility management for mission-critical applications
- M2M wireless sensor networks for mission critical applications
- Advanced information/data management for mission-critical applications
- Mobile communication and networks for mission-critical applications
- Inter-networking protocols and mechanisms for mission-critical applications
- Security, Trust and privacy for mission-critical applications
- Multi-hop wireless Networks for mission-critical applications
- Cross-layer optimisation in M2M networks for mission-critical applications
- Reinforcement learning approach for mission-critical applications
- Technologies for WSNs in mission-critical applications
- Coverage and connectivity issues in mission-critical applications
- Localisation issues in mission-critical applications
- Field trials, testbeds, and standard activities in M2M networks for mission-critical applications

The topics suggested by the workshop can be discussed in terms of concepts, survey, research, standards, implementations, running experiments, applications, and practical case studies.

## **SCHEDULE, IMPORTANT DATES**

**Submission Deadline: March 30th, 2014**

**Authors notification: May 15th, 2014**

**Camera Ready papers due: June 15th, 2014**

## **INSTRUCTIONS FOR PAPER SUBMISSIONS**

Authors are invited to submit original and unpublished research works on above topics. Submitted papers must not have been published or simultaneously submitted elsewhere. Please, indicate clearly the corresponding author and include up to 6 keywords and an abstract of no more than 400 words.

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**Publication:** All COMMCA 2014 accepted papers will be scheduled for oral presentations and will be printed in the conference proceedings published by Elsevier Science in the open-access *Procedia Computer Science* series on-line. *Procedia Computer Sciences* is hosted on [www.Elsevier.com](http://www.Elsevier.com) and on Elsevier content platform ScienceDirect ([www.sciencedirect.com](http://www.sciencedirect.com)), and will be freely available worldwide. All papers in *Procedia* will also be indexed by Thomson Reuters' Conference Proceeding Citation Index <http://thomsonreuters.com/conference-proceedings-citation-index/>. The papers will contain linked references, XML versions and citable DOI numbers. You will be able to provide a hyperlink to all delegates and direct your conference website visitors to your proceedings. All accepted papers will also be indexed in DBLP (<http://dblp.uni-trier.de/>). At least one author of each accepted paper is required to register and attend the conference to present the work.

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TBA ...

## Workshop Website

Further information about the venue and the workshop's program will be posted at the COMMCA 2014 workshop website:  
<http://www.commca.org>.

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