Programme prévisionnel séminaire annuel e-Adapt / e-Adapt annual workshop previsional program

Date et lieu
Vendredi 30 juin tout la journée, salle C007 de l'IUT (15 rue de Vaux de Foletier, La Rochelle) au rez-de-chaussée bâtiment Informatique/Réseau et Télécommunications.
Le séminaire pourra être suivi à distance sur Teams : https://teams.microsoft.com/l/meetup-join/19%3ameeting_MmE0MDZjNzYtNjMyMi00Zjk3LTgzZDQtNjcwMjNjNjk1Nzdl%40thread.v2/0?context=%7b%22Tid%22%3a%221074f4a4-cc2e-413b-9107-db1f80508ac7%22%2c%22Oid%22%3a%22bd3fdb01-6fd6-4189-bb15-0fb2993391e5%22%7d

Organisation de la journée

8:30-8:45 : Accueil et mot d'introduction (Ronan Champagnat)

Session e-Learning/Process Mining/Recommendation
8:45-9:10 : Goal Driven Recommendation of a Personalized Adaptive Learning Path (Noura Joudieh)

Session 1/2 Réseaux et IoT
9:10-9:35 : A Multi-Hop-Aware User To Edge-Server Association Game (Youcef Kardjadja)

Session Blockchain
9:35-10:00 : DARS – Decentralized Anonymous Reputation System (Amine Bouchiha)
10:00-10:25 : Pilot the Lightning (Hamza Tadlaoui)

10:25-10:40 Pause café

Séminaire L3i Maria Potop-Butucaru (Sorbonne Université)
10:40-11:30 : Blockchains in the era of Decentralized Federated Learning
Abstract:
Blockchain phenomena is similar to the last century gold rush. Blockchain technologies are publicized as being the technical solution for fully decentralizing activities that were for centuries centralized such as administration and finance. Recently, decentralized federated learning based on blockchain technologies opened a new research field. This talk will visit several fault-tolerant distributed algorithms abstractions through the lens of decentralized federated learning presenting some results and techniques and open research directions.

Séminaire L3i Miguel Campista, (Université Fédérale de Rio de Janeiro)
11:30-12:10 : AVADIP: Distributed Learning and Privacy Preserving for Vehicular Applications
Abstract:

Vehicular applications are affected by drivers' patterns and use models generated by machine learning algorithms with distributed data acquisition. Currently, such data is obtained from the vehicles themselves, possibly going beyond the privacy limits of drivers or passengers. In this sense, data privacy is a fundamental requirement for drivers to feel motivated to cooperate with the well-being achieved by applications. This talk presents the new project AVADIP (Distributed Learning and Privacy Preserving for Vehicular Applications) and some of the related works on federated learning, secure computing, and data manipulation.

12:10-13:50 Déjeuner

Séminaire L3i Islam Naas (La Rochelle Université)
13:50-14:30 : Placement des données de l'Internet des objets dans une infrastructure de Fog
Résumé :
L'idée principale derrière le paradigme informatique Fog est de rapprocher autant que possible le traitement des données de leur source. Cependant, étant donné que les équipements associés à ces paradigmes sont hétérogènes et disposent de ressources de calcul, de stockage limitées, un mauvais placement des traitements et des données dans une telle infrastructure peut entraîner des problèmes tels que la latence, la disponibilité de service et la sécurité. Dans cette présentation, je vais décrire mes travaux de recherche visant à optimiser le placement des données de l'Internet des objets (IoT) dans les infrastructures de type Fog afin de minimiser la latence de service.

14:30-14:45 Pause café

Session 2/2 Réseaux et IoT
14:45-15:15 Towards detection and mitigation of zero-day cyber attacks in 5G V2X Networks (Abdelaziz Amara Korba)
15:15-15:40 Mobility-aware 3C Resource orchestration in INC-Enabled Edge Cloud Continuum. (Manel Gherari)
15:40-16:05 Multi-agent reinforcement learning-based centralized intrusion detection system for cloud environment (Amine Tellache)

Clôture de la journée e-Adapt
16:05-16:30 Discussions conclusives.

Biographies des intervenants séminaires labo

Maria Potop-Butucaru
Maria Potop-Butucaru has been a full professor at the Sorbonne University since 2012, and she has led the Network and Performance Analysis team in LIP6 laboratory since 2018. She received her BSc in Computer Science in 1996 from University Al. I Cuza, Iasi, Romania, and her MSc in 1997 jointly from University Al. I Cuza and Paris XI University, Orsay, France. She received her PhD in 2000 from Paris XI University, France. She was Associate Professor in University Rennes 1 from 2001 to 2006, then Associate Professor at Sorbonne University (former Pierre and Marie Curie University) from 2006 to 2011. Her research interests are distributed systems resilient to multi faults and attacks (crash, Byzantine, transient, etc.). She is

interested in self* (self-organizing, selfhealing, and self-stabilizing) and secure static and dynamic distributed systems (e.g., blockchains, peer-to-peer networks, sensors, and robot networks). She focuses in particular on the conception and proof of dependable distributed algorithms for fundamental distributed computing problems: communication primitives (e.g., broadcast, converge-cast, etc.), self* overlays (various spanning trees, P2P overlays, etc.), coherence and resource allocation problems (storage, mutual exclusion, etc.), consensus or leader election.

Miguel Campista

Miguel Elias Mitre Campista received his Telecommunications Engineering degree from the Fluminense Federal University (UFF), Rio de Janeiro, Brazil, in 2003 and the M.Sc. and D.Sc. degrees in Electrical Engineering from the Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, Brazil, in 2005 and 2008, respectively. He's an associate professor with the Electronic and Computer Engineering Department of Poli/UFRJ and a full professor with the Electrical Engineering Program (PEE) of COPPE/UFRJ. He has spent one year as an invited Professor with LIP6 at the UPMC Sorbonne Université, in France. Currently, he's ranked researcher PQ-2 from the Brazilian government (CNPq), awarded Young Scientist of Rio de Janeiro State from FAPERJ two times, and elected Affiliate Member of the Brazilian Academy of Science (ABC). He's an Associate Editor of the Annals of Telecommunications journal and an IEEE senior member. Prof. Miguel is a member of the Grupo de Teleinformática e Automação (GTA) team, a really inspiring lab full of exceptional people.

Mohammed Islam Naas

Je suis maître de conférences à La Rochelle Université (Département Informatique) et membre de l'équipe eADAPT du L3i. Mes travaux de recherche sont centrés sur la gestion des ressources dans les environnements du Cloud/Fog computing. Au sein du projet LUDI (Littoral Urbain Durable Intelligent) de La Rochelle Université, je suis intéressé par la gestion des traitements et des données dans un continuum Edge-Fog-Cloud pour optimiser l'empreinte carbone. Mon domaine de compétences inclut : l'architecture du système, le système d'exploitation, l'Internet des objets, le Edge/Fog/Cloud computing, etc.