

Department of Systems Engineering and Engineering Management

Seminar Series

Deducing virtual districts from user connections to a free public wifi network

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Venue: P7510, Yeung Kin Man Academic Building (YEUNG), City University of Hong
Kong

Abstract

The pervasive deployment of low cost WiFi access points have accelerated the development of mobile computing to provide ubiquitous computing. In this presentation we will focus on the discovery of urban areas, in several french cities, using the connections of mobile users to their city-wide free public Wi-Fi network. For this, we use a non supervised method: spectral clustering, applied by using the k-means technique in order to define areas by grouping access points according to their visitations. Even though the resulting partitioning of the city does not match existing administrative districts it makes sense and exhibits zones of different type : zones popular for shopping, zones popular for night life, zones popular for students ... Our method has been used on several French cities and the results are available on the web.

About the Speaker

Olivier Camp received his Ph.D from Université Pierre et Marie Curie (UPMC), Paris in 1994. Since 2000, he is Assistant Professor at ESEO a graduate school of Engineering in Angers, France; where he is a member of the ERIS research team. He started his teaching career in 1996 as Assistant Professor at IFI/VNU (Institut de la Francophonie pour l'Informatique-Vietnam National University) a French speaking graduate institute in information technology in Hanoi, Vietnam. He returned to IFI during academic year 2012-2013 as the director of the institute.

His research interests include security, trust modeling, software engineering, context aware applications, recommender systems; specifically in the context of pervasive computing. He is the author or co-author of several articles in national and international conferences and journals and has been involved in the committees of several international conferences. He has participated in a number of French and International collaborative research projects in the fields of : security, software engineering and pervasive computing. In ESEO, Olivier Camp is in charge of several courses dealing with security, AI and software engineering. Since 2018 he is in charge of the international relations of his school.

All are Welcome!