

Message from the Advanced Seminars Co-Chairs

MDM 2019

It is our great pleasure to welcome you to the Advanced Seminar Track of the *20th IEEE International Conference on Mobile Data Management (IEEE MDM 2019)*, in Hong Kong SAR, China.

IEEE MDM's Advanced Seminar track provides an opportunity for researchers and practitioners to share the viewpoints in a more focused manner on certain topics related to mobile data management. This year, the advanced seminars, also known as invited seminar talks, are organized as 1 hour presentations. The following two advanced seminars were selected to be presented at IEEE MDM 2019, both of which are proposed by experts in the related fields:

1. *Geometric Top-k Processing: Updates since MDM'16 Advanced Seminar* by Kyriakos Mouratidis (Singapore Management University). This seminar focuses on geometric aspect of the top-k processing for multi-criteria decision making in mobile and spatial databases. Rather than traditional top-k queries, this seminar considers complementary geometric operators in terms of problem formulation and solution design.
2. *Mobile Data Collection and Analysis with Local Differential Privacy* by Ninghui Li (Purdue University) and Qingqing Ye (Renmin University of China). Local Differential Privacy (LDP) is a new and promising privacy-preserving model for mobile data collection and analysis. This seminar first introduces the rationale of LDP model behind commercially deployed systems, then surveys the current research landscape in LDP, and finally identifies several open problems and research directions in this community.

Both seminars are described in more detail in the extended abstracts in this volume. We are happy that the conference program is complemented by two seminars about these current and interesting research fields.

Welcome to IEEE MDM 2019 in Hong Kong!

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IEEE MDM 2019 Advanced Seminars Co-Chairs