Some Query Processing Research Topics

• What are (Future) Queries and what is (Future) Query Processing?
• When/how will queries get optimized?
• How should Query Processing relate to scheduling?
• Heterogeneous Data and Big Data?
• Statistics? Access structures?
• How might Learning help?
• Code Generation and Query Execution
• Impact of emerging hardware directions; role of special purpose HW
• Security/Privacy/Trust and Query Processing?
Session 6: Query Processing Under New Assumptions

The Case Against Specialized Graph Analytics Engines
Jing Fan (University of Wisconsin); Adalbert Gerald Soosai Raj (University of Wisconsin); Jignesh M. Patel (University of Wisconsin)

FPGA-Based Multithreading For In-Memory Hash Joins
Robert J. Halstead (University of California); Ildar Absalyamov (University of California); Walid A. Najjar (University of California); Vassilis J. Tsotras (University of California)

Raising Authorization Awareness in a DBMS
Abhijeet Mohapatra (Stanford University); Ravi Ramamurthy (Microsoft Research); Raghav Kaushik (Microsoft Research)

Tupleware: "Big" Data, Big Analytics, Small Clusters
Andrew Crotty (Brown University); Alex Galakatos (Brown University); Kayhan Dursun (Brown University); Tim Kraska (Brown University); Ugur Cetintemel (Brown University); Stan Zdonik (Brown University)