Agile software development processes have been influenced by best practices in Japanese industry, particularly by lean product development principles [1] implemented at companies like Honda [2] and Toyota [3], and knowledge management strategies developed by Takeuchi and Nonaka [4], now at the Hitotsubashi Business School in Japan, and Peter Senge [5] at MIT. This minitrack will focus on advancing the state of the art or presenting innovative ideas related to agile methods, individual practices and tools. Accepted papers will potentially enrich the body of knowledge and influence the framework of thought in the field by investigating Agile methods in a rigorous fashion.

The track is open to research papers on multiple aspects of agile methods, particularly those that bring best practices in knowledge management and lean development to scalable, distributed, and outsourced Scrum, eXtreme Programming (XP), and other agile practices [6]:

- Agile methods and processes
- Business and social facets of agile software development
- Technical facets of agile software engineering
- Agile usability
- Tools for agile developers and teams
- Empirical studies of agile methods

Topics include:

- Research on integrating ideas from other fields, e.g. interaction design, requirements engineering, cognitive science, organizational psychology, usability testing, software security, into agile processes.
- Research studies of development teams using ethnographic or social research techniques.
- Research on agile software engineering economics.
- Quantitative and qualitative studies of agile methods, practices, and tools.
- Research on agile compliance and cost benefits within CMMI, ISO 9000, and FDA certified development projects.

Papers are particularly relevant when agile process implementations are shown to produce quantitative and qualitative benefits on distributed, outsourced, large, or standards compliant software development projects which have been previously been viewed (erroneously) as unsuited for agile development.

References: