Thursday, November 14\textsuperscript{th}, 16:00-17:00

\textbf{Alexander Meduna}  
Brno University of Technology (Czech Republic)

\section*{Jumping Finite Automata}

This talk proposes a new investigation area in automata theory — jumping finite automata. These automata work like classical finite automata except that they read input words discontinuously — that is, after reading a symbol, they can jump over some symbols within the words and continue their computation from there. The talk gives several results concerning jumping finite automata in terms of commonly investigated areas of automata theory, such as closure properties. Most importantly, it achieves several results that demonstrate differences between jumping finite automata and classical finite automata. In its conclusion, the talk formulates several open problems and suggests future investigation areas.

\section*{About the speaker:
\textbf{Prof. Alexander Meduna} (born 1957 in Olomouc, Czech Republic) is a theoretical computer scientist and expert on compiler design, formal languages and automata. He is a professor of Computer Science at the Brno University of Technology. Formerly, he taught theoretical computer science at various European and American universities, including the University of Missouri, where he spent a decade teaching advanced topics of formal language theory. He wrote over ninety papers related to theoretical computer scientist. His latest book is:}