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Automated Theorem Proving

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Automated theorem provers have recently made remarkable progress thanks to development of hardware, including parallel machines, and logic programming technologies. Now the stage of applying them to practical problems is approaching. In fact, the parallel theorem prover MGTP developed at ICOT is already used as an inference engine for development of AI applications. MGTP was also successful in solving some open problems in finite algebra, and expectations for parallel theorem proving approaches are increasing. This workshop aims at a wide range of discussions on technologies of constructing large scale parallel theorem provers, their applications and extensions to cover non-standard logic. However, themes for discussions are not restricted to the above.