

Code Generation, Amazing. Next?

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SEMINAR ANNOUNCEMENT

- **Date & Time:** 22 June 2026, 10:00-12:00
- **Place:** Room 502, 5th Flour, IT/BT Building, Hanyang University
- **Abstract:** Recent advances in code generation have substantially expanded the scope of problems that AI systems can tackle. Beyond generating programs in general-purpose languages such as Python and Java, modern AI systems can now produce a wide range of executable and structured outputs, including SQL queries, formal proofs written in systems such as Lean, and robot policies. This seminar will survey the current status and common workflows of AI-based code generation, with a particular emphasis on verification, which can serve not only as an evaluation mechanism but also as a key component for improving the generation process itself. I will present three research projects that investigate verification-centered approaches in different domains: general code generation, SQL, and automated theorem proving. Through these examples, the seminar will discuss both the shared challenges that arise across executable structured-output generation tasks and the domain-specific verification considerations of each setting.
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