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- Basics of oral communication and dialogue: modelling of production and perception processes; phonetics and phonology; syntax; semantics and pragmatics of speech communication; cognitive aspects.
- Models and tools for language learning: functional organisation and developmental models of human language capabilities; acquisition and rehabilitation of spoken language; speech & hearing defects and aids.
- Speech signal processing: analysis, coding, transmission, enhancement, robustness to noise.
- Models for automatic speech communication: speech recognition; language identification; speaker recognition; speech synthesis; oral dialogue.
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