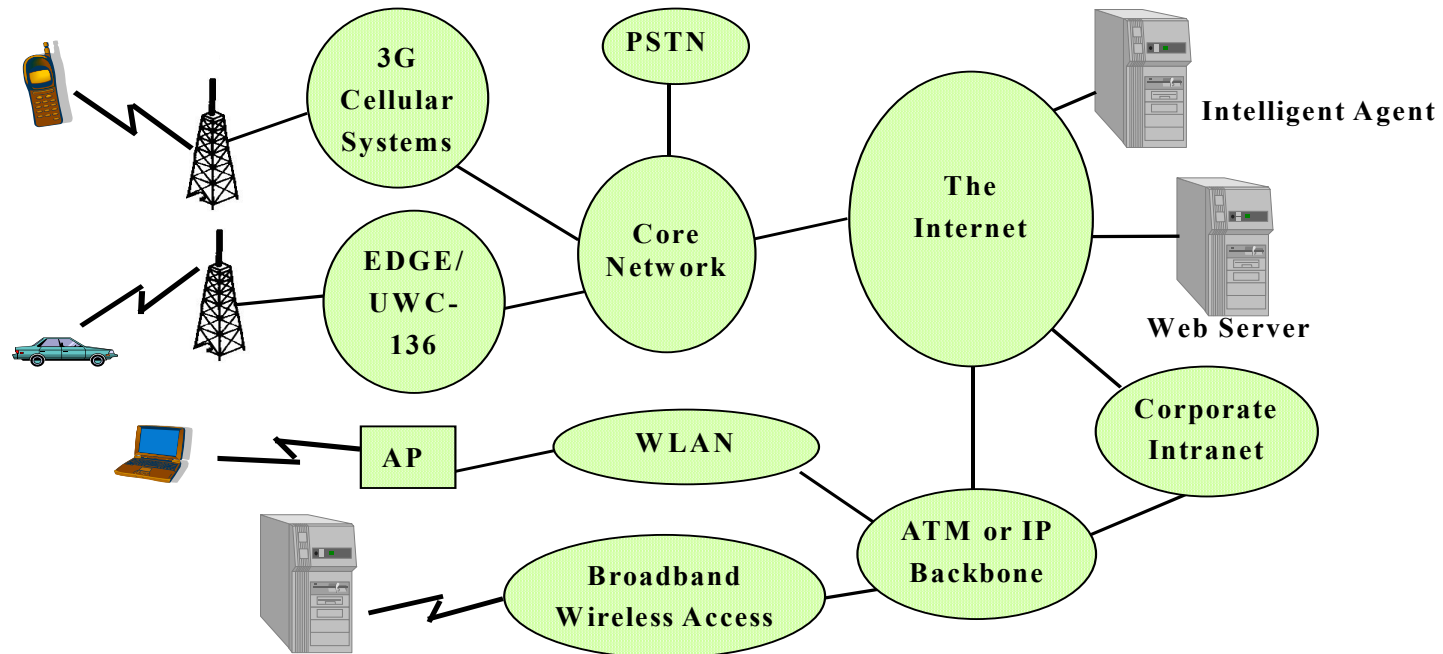


# 17.0 Conclusion

**Reference:** “Special Issue on Spoken Language Processing”, Proceedings of the IEEE, Aug 2000

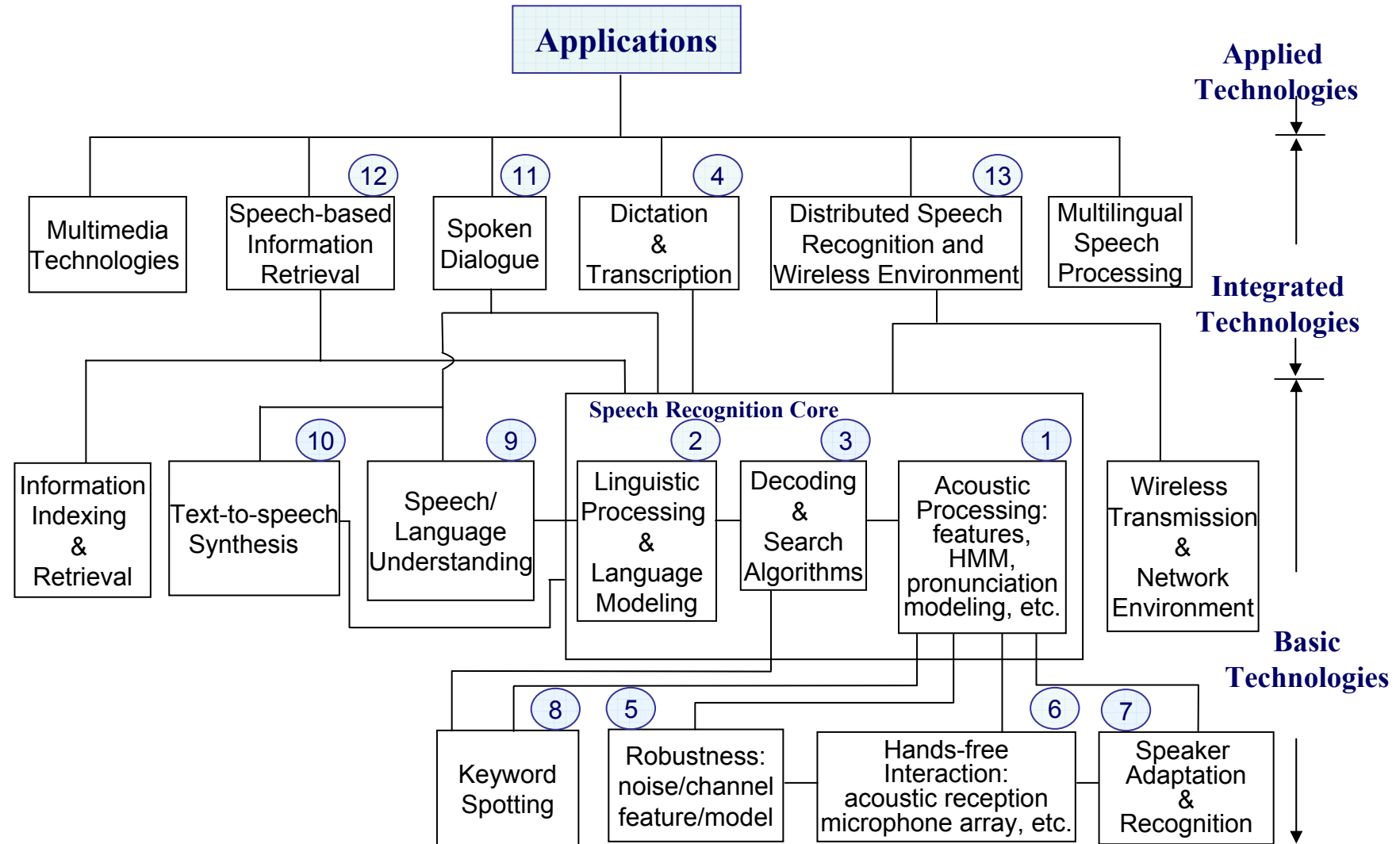
# Voice Access of Global Information with Wireless

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- **Global Information**
- **At Any Time, from Anywhere**
- **As Handset Size Shrinks While Required Functionalities Grows and the User Environment Changes, Voice Interface will be Useful for all Different User Terminals**
- **Integration of Many Different Technologies**
  - information processing, networking, transmission, internet, wireless, speech processing

# Map of Subject Areas



# Concluding Remarks

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- **Interdisciplinary Nature**

- Digital Signal Processing, Perception Analysis, Phonetics, Linguistics, Natural Language Processing, Artificial Intelligence, Pattern Recognition, Statistics, Information Theory, Detection/Estimation Theory, Digital Communications, Information Retrieval, Wireless, Networks...
- higher entry barrier with plenty of open space
- the only missing link in a key technology chain
- integrating mathematical models with programming

- **Speech is the Most Natural Communication Media for Human Beings with Unlimited Variety**

- everyone speaks everyday
- all sentences/utterances are different acoustically/linguistically
- at least 4,000 different languages all over the world, at least 100 extensively used

- **The Time of Speech is Coming**

- the post-PC era and wireless developments have created a perfect space for speech technologies
- the opportunities and challenges are simply limited by your imagination