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## **Technologies and Applications of Large Core Optical Fibers**

Guest Editors:Message from the Guest EditorsProf. Dr. Anton BourdineDear Colleagues,Dr. Ruslan KutluyarovThe discovered new multi- and few-mode effects, as well as

Dr. Artem A. Kuznetsov

Prof. Dr. Manish Tiwari

Dr. Airat Zh. Sakhabutdinov

Deadline for manuscript submissions: closed (29 February 2024) the utilization and customization of known multi- and fewmode regimes for specified applications in telecommunications, sensorics, medicine, fiber-optic lasers/laser delivery systems, light sources for illumination, endoscopes, remote viewing and other matters, are the key areas in the presented Special Issue. This publication will cover a large scope of research in the area of multi- and few-mode effects in optical fibers, including topics of:

- MMFs and FMFs for telecommunications;
- MDM / SDM technique for optical networking;
- MIMO technique for optical networks with MMFs and FMFs;
- laser optimized multimode optical fibers;
- FMFs / multicore FMFs;
- laser-based multi-Gigabit data transmission over large core optical fibers;
- fiber optic sensors based on a few-mode effects;
- extremely enlarged core optical fibers;
- MMFs and FMFs in medicine;
- MMFs and FMFs in lasers / laser delivery systems;
- image transmission over MMFs and FMFs;
- chiral MMFs and FMFs;
- microstructured and photonic crystal MMFs and FMFs;
- polymer optical fibers and microstructured polymer optical fibers.





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