

# iFPC & OS 2023

2<sup>ND</sup> INTERNATIONAL FUSION AND PLASMA CONFERENCE &  
13<sup>TH</sup> INTERNATIONAL CONFERENCE ON OPEN MAGNETIC SYSTEMS FOR PLASMA CONFINEMENT  
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## **Choong-Seok Chang**

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### **Biography**

- Choongseok (CS) Chang is currently a Managing Principal Physicist at Princeton Plasma Physics Laboratory (PPPL) and a member of Princeton Institute for Computational Science & Engineering (PICSciE) at Princeton University. He has been leading multi-disciplinary teams for almost two decades – nurturing close collaboration among physicists, computer scientists, applied mathematicians and AI/ML scientists – for smart simulation of complex nonlinear multiscale plasma on supercomputers. Under his leadership in multiple US fusion SciDAC projects and exascale computing projects (ECP), the well-known gyrokinetic code XGC has been developed with topmost blessings from world-leading supercomputing centers and manufacturers. He has been organizing or co-organizing numerous important US-DOE and international computational/AI reports and meetings. He is a Fellow of the American Physical Society. His other endeavors include long-term tenures at KAIST and Courant Institute of Mathematical Sciences, New York University. He led the Physics Design of KSTAR tokamak.