



The Department of Engineering of the University of Sannio has been selected as one of the 180 Italian Departments of Excellence and several internationally renowned scholars will be hosted to further enrich the educational offer.

In this framework, the DING is pleased to welcome Prof. Ruzhu Wang, internationally renowned scientist in the field of refrigeration and renewable energy sources. His scientific leadership in China, a key role country in the energy transition given its energy consumptions and related emissions, will allow the course participants to gain specialized knowledge about innovative technologies on which China already holds the technological and commercial primacy.

Renewable Energy Systems: An Outlook and Perspectives

The course will aim at discussing the reasons why renewable energy systems are needed, by focusing on the developments of solar PV and solar thermal, wind energy, heat pumps and energy storage systems. Heating and cooling are critical for sustainable energy utilization in which energy efficiency is the key. Facing to carbon neutral strategy in the next 30-40 years, energy structure changes from high carbon to middle carbon and zero carbon may need immediate actions to innovate various energy efficient systems and even direct air carbon capture systems.

• PROFESSOR RUZHU WANG •



Prof. Ruzhu Wang is a chair professor at Shanghai Jiao Tong University. He is a leading scientist in heat pumps, combined cooling, heating and power plants, solar heating and cooling, and green building energy systems. He has won the *Chinese National Research Awards* twice and the *Education award* once. He has written 12 books, about 700 co-authored international journal papers and more than 150 patents. His Scopus h-index is 88, and the citations over 34,000.

Prof. Wang received 7 international academic awards, including the *J & E Hall International Gold Medal*, the *Nukiyama Memorial Award*, the *IIR-Gustav Lorentzen Medal* and the *Peter Ritter von Rittinger International Heat Pump Award*.

• COURSE TIMETABLES •

30 November: from 12:00 to 15:00.

1 December: from 12:00 to 15:00.

• PARTICIPATION •

The lectures will be held online.

The link to the online lessons will be sent to all registered participants before the course starts.

To participate, fill in the form: <https://forms.gle/FKNTf7Q3wdBbi8dM6>

For more information, please send an email to giopallotta@unisannio.it

