

Areas of expertise

- Heating ventilation and air conditioning (HVAC): Thermal analysis on heating and cooling units; Air distribution in ventilation systems; Systems for providing indoor air quality; HVAC systems for passive houses and near zero energy buildings (nZEB).
- Indoor air quality (IAQ): air cleanness; chemical composition of indoor air; indoor air movement.
- Thermal comfort: indoor air parameters; outdoor-indoor heat exchange, finite element thermal analysis.
- Energy efficient systems: air to air heat recovery; ground to air and water to air heat exchangers; heat pumps.