

# Preface

This book includes peer-reviewed papers presented at the 6th International Scientific Conference of AlKafeel University (ISCKU2025, January 6-8, 2025, Al-Najaf Al-Ashraf, Iraq).

The edition presents a focused collection of research results addressing contemporary challenges and innovations across materials science, intelligent systems, and digital technologies. The contributions reflect the increasing integration of physical materials with advanced control, communication, and data-driven approaches.

The chapters cover functional and composite materials, mechatronics, communication engineering, data analysis, and cybersecurity, highlighting interdisciplinary solutions that support modern engineering applications and secure technological infrastructures.

This edition is compiled to offer researchers, engineers, and practitioners concise insights into emerging trends and practical solutions across various engineering fields.

We gratefully acknowledge the authors for their valuable contributions and the readers for their interest in this edition.

## **Scientific Committee**

Prof. Dr. Fadhil I. Sharrad  
Assoc. Prof. Dr. Sddiq G. Al-Muhanna  
Dr. Ahmed A. Al-Khazaali

## **Sponsors**

Al-Ameed University  
Al-Kafeel Super Specialty Hospital