

Artificial Intelligence in Medicine

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The BGU Medical Informatics Research Center



- The main academic center in this area in Israel
- Integrates researchers from the engineering, medical, natural science, and management faculties of Ben Gurion University
 - Laboratory based in the Software & Information Systems Engineering Department
 - M.Sc./Ph.D students from multiple departments, faculties and universities
- Focuses on **medical decision-support** systems, especially in chronic-patient management
 - **Data mining** and machine learning from large, multivariate clinical databases, in particular over **time**
 - Intelligent **monitoring** of patients, especially chronic patients, over time
 - Automated Intelligent **interpretation** of large numbers of longitudinal clinical data
 - Automated support to **evidence-based, guideline-based care**
 - **Quality assurance** and **quality assessment** of medical care
 - Individual and policy-oriented medical **decision making**
 - Investigation of and protection from **cyber-security threats** to medical devices