

# Elena Semouchkina

Professor, Electrical and Computer Engineering



[esemouch@mtu.edu](mailto:esemouch@mtu.edu)



+1-906-487-2869

## Research Interests

- Resonance phenomena in complex media: metasurfaces, metamaterials, and photonic crystals
- Computational electromagnetic analysis
- Electromagnetic cloaking
- High-contrast materials integration for electronic and photonic systems
- Materials and device characterization at microwaves



## Links of Interest



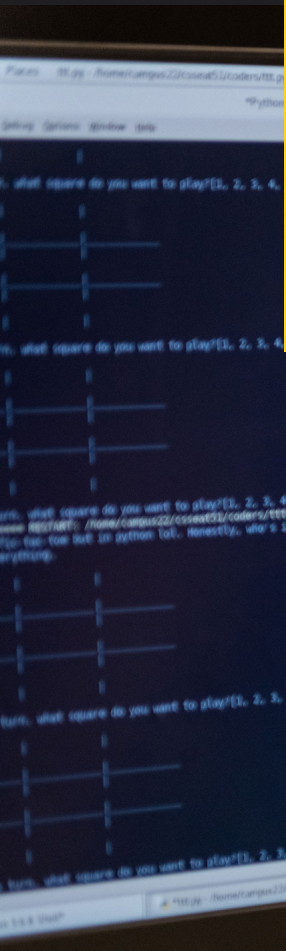
[IEEE](#)



[Publications](#)



[Institute of Computing and Cybersystems](#)



```
num4+""+num5+""+num6+""
num7+""+num8+""+num9+""
TTT=[1,2,3,4,5,6,7,8,9]
fillnum=input("It is "+turn+"'s turn. what square do you want to play?")*(TTT)
if fillnum=="1":
    num1=turn
elif fillnum=="2":
    num2=turn
elif fillnum=="3":
    num3=turn
elif fillnum=="4":
    num4=turn
elif fillnum=="5":
    num5=turn
elif fillnum=="6":
    num6=turn
elif fillnum=="7":
    num7=turn
elif fillnum=="8":
    num8=turn
elif fillnum=="9":
    num9=turn
```